

For Retailer, Wholesaler and Manufacturer

AUGUST 15 1964

Grossmith Christmas shows

Here in advance are the dates of our Christmas shows at which you will be welcome. A formal invitation will be sent you later together with our Christmas brochure.

		and the second	·	
				IN ATTENDANCE
	Aug. 10-14	Edinburgh	North British Hotel	Mr. P. S. Westrup
	6	6		Mr. M. C. Meikle
	Aug. 17-21	Southampton	Polygon Hotel	Mr. P. D. Mote
	Aug. 17-21	Chatham	Sun Hotel	Mr. B. G. Phillips
	Aug. 24-28	London, N.W.4		Mr. F. G. Edgington
The second secon		,		Mr. C. J. Goodere
				Mr. I. H. Williamson
	Aug. 24-28	Newcastle	Royal Turks Head Hotel	Mr. H. J. Matthews
	Aug. 24-28	Nottingham	Victoria Hotel	Mr. T. F. Hughes
	Aug. 24-28	Brighton	Metropole Hotel	Mr. P. D. Mote
	Aug. 24-28	Bristol	Royal Hotel	Mr. W. J. Lewis
	67			Mr. J. B. Catling
	Aug. 24-28	Glasgow	St. Enoch's Hotel	Mr. M. C. Meikle
	0	C		Mr. P. S. Westrup
	Aug. 24-28	Liverpool	Adelphi Hotel	Mr. H. G. McElroy
		•	•	Mr. D. K. Ludley
	Aug. 31-Sept. 4	Cardiff	Queens Hotel	Mr. W. J. Lewis
	Aug. 31-Sept. 4	Leeds	Queens Hotel	Mr. D. K. Ludley
	•			Mr. H. J. Matthews
				Mr. T. F. Hughes
	Sept. 7-11	Norwieh	Castle Hotel	Mr. C. J. Goodere
	Sept. 7-11	Birmingham	Queens Hotel	Mr. A. Wolfenden
	Sept. 7-11	Manchester	Midland Hotel	Mr. H.G. McElroy
				Mr. D. K. Ludley
	Sept. 14-18	Belfast	Grand Central Hotel	Mr. M. C. Meikle
11.10	Sept. 14-17	Exeter	Rougemont Hotel	Mr. J. B. Catling
W" Care	Sept. 14-17	Llandudno	St. Ğeorge's Hotel	Mr. H. G. McElroy
المالية	ALL CHRISTM 48 81101	LEOOMS TREOPEN FR	OM 9 f.M10 P.M. E JCH D fY, EX	CEPT FRID.IY 9 I.M.=1 P.M.
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White have tale, perform and some 1273.

Special display of White Fire gift boxes

GROSSMITH PICCADILLY LONDON



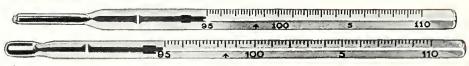
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CLINICAL THERMOMETERS

G. H. ZEAL LTD. remind customers that all British Standard Clinical Thermometers are being supplied in accordance with the 1961 edition of B.S. 691*

Furthermore the B.S.I. Kite Mark, an additional guarantee of quality and accuracy, is engraved on all **ZEAL** British Standard Clinical Thermometers **AT NO EXTRA COST**





The usual comprehensive range of Oral, Rectal, Sub-normal and Skin Thermometers is available. * Explanatory Pamphlet available on request.

OBTAINABLE FROM ALL LEADING WHOLESALERS

G. H. ZEAL LIMITED LOMBARD ROAD * MORDEN ROAD

Tel: LIBERTY 2283 (4 lines) Grams: Zealdom, London, S.W.19.

MERTON * LONDON S*W*19.





THE WORLD'S LEADING MANUFACTURER OF VITAMIN D2

CALCIFEROL B.P./U.S.P. XVI 40 MILLION I.U./GRAM. WATER MISCIBLE. DRY POWDER 200,000 I.U./GRAM. OIL CONCENTRATES TO CUSTOMERS REQUIREMENTS.

For years Vitamins Limited have specialised in research into the physiological and therapeutic activity of vitamins and now produce an unrivalled range of vitamin products.

All enquiries to: Bulk Sales Division, Vitamins Limited, Upper Mall, London, W.6.

VITAMINS FROM VITAMINS LIMITED



Can you offer one brand of baby foods covering cereals, strained foods and junior foods?

Gerber HIGH PROTEIN

Jeneal Inc. beby

State of the State

Not until October. Not until Gerber.

Gerber, world's leading baby foods, start selling-in, late July.

Dramatic new-style advertising starts October.

Big-money campaigns. On TV. In women's magazines. In specialist 'mother and baby' magazines. In medical/nursing magazines. Also—direct personal recommendation by Gerber advisory teams at clinics.

More and more mothers buy ready-prepared baby foods.

Eight out of ten already buy three times a week, or more. Gerber will stimulate this trend. Gerber are specialists—they only feed babies. Babies love Gerber foods. Test market confirmed this. Stockists had big accelerating sales from start—often 40-50% of their total baby food sales. Gerber representatives calling soon . . . with revolutionary CASH offer, for first-ever complete range of baby foods—Cereals, Strained and Junior.

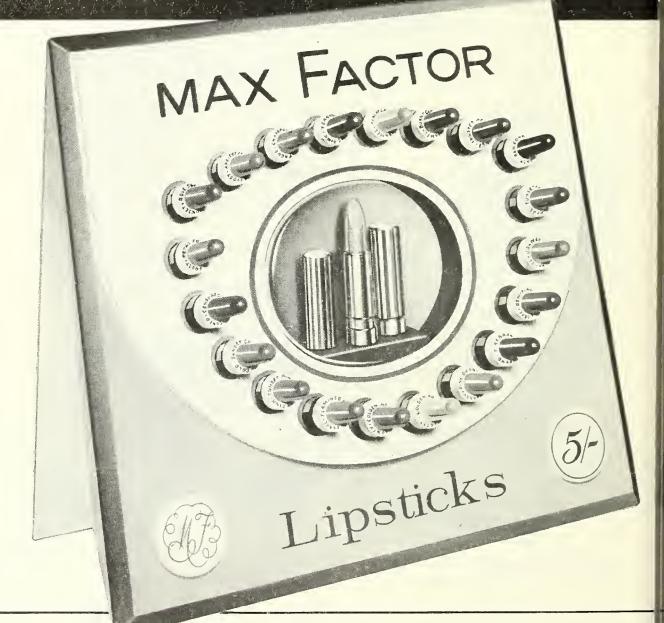




Babies are our business...our only business

EXCITINGLY NEW MAX FACTOR

THIS IS THE INTRIGUING COUNTER/TESTER UNIT THAT ENSURES MAXIMUM SALES!



The demand for these brilliant lipsticks is soaring, so make sure you display your delightful Counter/Tester Unit prominently in your shop, It's so practical! Stock is easily to hand. It's so appealing! Women can see the magnificent colour range at a glance . . . they won't be able to resist the temptation to test the beautiful colours for themselves.

IPSTICKS SELLING SENSATIONALLY!

abowerful Bypronged bromotion

TO GUARANTEE EXTRA SALES FOR YOU THIS AUTUMN!



A new, nationwide advertising campaign! Full-colour, full-page advertisments will be featured in all the mass-circulation magazines throughout September and October.



A new eye-catching T.V. Commercial! To be shown on all stations in top pop programmes. So exciting, so gay and appealing, women everywhere will respond to it.





A new dramatic film—
'EYES, LIPS and a GIRL LIKE YOU!'

Featuring lipsticks in an unusual, provocative way, it will run from August 30th to December 19th in top-circuit cinemas in the main towns all over the country!



Millions of women are delighted with MAX FACTORS new lipsticks Millions more will be! DON'T MISS OUT ON YOUR SHARE OF THE PROFITS!

PASSIGEN
HERBAL TRANQUILLISER

* SOOTHE NERVOUS CONDITIONS * STRENGTHEN NERVES

the natural way

I WEEK'S COURSE 5/- (30/- p. dozen + P. Tax 25%)

CARTER BROS., GLEN LABORATORIES, SHIPLEY



VITAMIN B-6 and B-2

Regular supplies from stock or forward delivery

M. H. HEINEMANN LTD., 106, OLD BROAD STREET, LONDON, E.C.2.

Phone: London Wall 3568



this is the theme of the NEW

Torbet advertising

Modern—attention compelling—in tune with present day living, the latest Torbet advertising will give a boost to sales. Half-a-century of established reputation allows you to recommend these safe vegetable laxative tablets to your customer with absolute confidence.

TORBET CALSALETTES 1/8½ and 6/8½

TORBET
LACTIC OATS

2/1 and 4/2

TORBET LACTIC OAT CO., LTD., 24 Great King St., Edinburgh, 3

LEYTON E.10



Modern Factory

Mainly single-storey
APPROX. 41,000 SQ. FT.
Sprinklers, Central heating, Goods lift
Rear yard approx. 7,000 sq. ft.

TO LET

CLOSE TO READING, BERKS

Fully equipped Research Laboratory

FOR SALE FREEHOLD

For further particulars of both properties apply:

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77 Grosvenor St · London WI · MAYfair 7666

AND AT

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Yalcs Nylon Elastic Hosiery is easy to sell!

Because there is a wide range of styles and foot-sizes, and because they are all in true two-way stretch yarn, Yalcs Nylon Elastic Hosiery is really easy to sell.

All leading chemists require surgical hose that is secondto-none in quality, nationally advertised and backed by superlative service. That is why they specify Yalcs.

Leaflets and measurement forms sent on request.

LONDON OFFICE:

6-10 GREAT PORTLAND ST., LONDON, W.1. TEL: LANgham 1071/2

DISTRIBUTORS FOR EIRE.

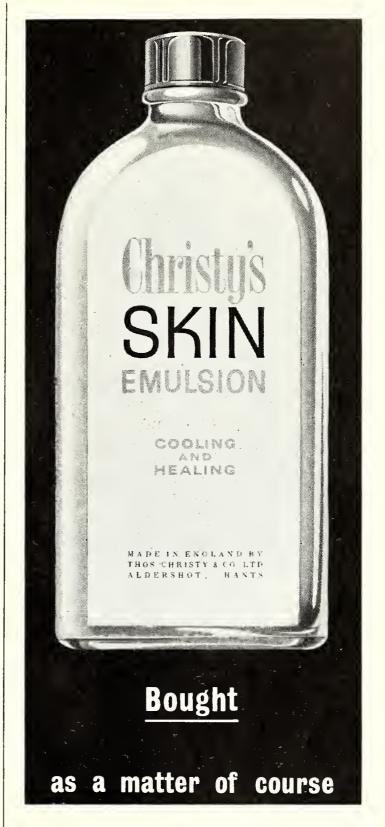
REXALL DRUG CO., DAVITT ROAD, DUBLIN 12. TEL: DUBLIN 5662819 GRAMS: REXALL, DUBLIN.

LENTON PRODUCTS LTD.



Grove Road Lenton

Nottingham.



... because millions of people have tried Christy's Skin Emulsion and come to rely on its gentle healing action. They have become regular users, regular customers, your customers. Advertising, backed by powerful point of sale material will continue to make more converts to Christy's Emulsion. For a profit that goes on year after year always stock and display Christy's Skin Emulsion.

HAVE YOU ASKED FOR YOUR FULL COLOUR CHRISTY'S SHOWCARD? If not, send for one with your order.

THOS. CHRISTY & CO. LTD.

152 North Lane • Aldershot • Hants.



utumn advertising for Bellair has en stepped up by more than 100%

ive the level of the fantastically successful Spring Campaign!

w more advertisements appear, at higher frequency and on more stations. And in addition to the strong-selling 15-seconds nmercials there are now plenty of gay 30-seconds advertisents which will have even greater impact on the 28 million wers who will see them.

eady sales of Bellair are rapidly outstripping all npetition as more and more women discover this h quality, beautifully presented and competitively sed hair spray. Share in this expanding profitable le. Order Bellair from your wholesaler or write for ails to:—

PSY PHARMACEUTICALS LTD.

Fountain Street, Oldham, Lancs.

Oldham MAIn 3045 and 6226



LACQUER





PAIN RELIEF TABLETS

A reliable and safe analgesic No aspirin or phenacetin

Packed in show outers of 1 dozen (cartoned vials each containing 24 tablets) and available under seven OWN NAME-OWN BRAND designs with arresting showcard

We would like to send you a full size sample and particulars of this well formulated product.

Please send a card to :-

ARTHUR H. COX & CO. LTD. **BRIGHTON, ENGLAND**

Tidiness efficiency! increases

STOREMASTER 20C

20 drawers all 8" wide, 7" high, $10\frac{7}{8}$ " long, each with white identification card and transparent washable cover.

Overall cabinet size: 42" high, 35" wide, 12" deep. Stove enamelled dark green. £14,15.0



LEDGE TYPE SHELVING

Efficiency demands tidiness, tidi-

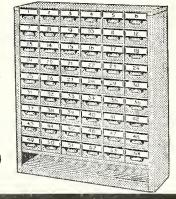
The ideal shelving unit for the storage of jars, bottles etc. 73" high x 36" wide with 3 shelves 12" deep and lower 3 shelves 18" deep giving a ledge 37" from the floor. Unassembled ready for erection. Other sizes available. Prices on request.

Price of illustrated £5.5.0

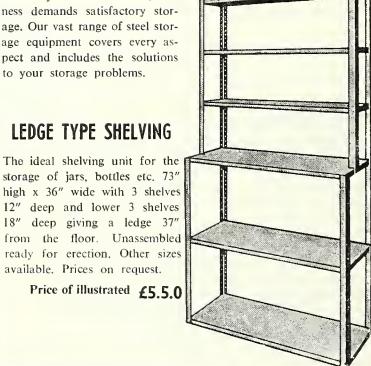


54 DRAWER UNIT

Overall size 42" high x 35" wide x 12" deep. 54 drawers, each $5\frac{1}{4}$ " x 3" $\times 10\frac{7}{8}$ ", complete with one divider, white card and transparent protective shield per £18.0.0 drawer.







N. C. BROWN LTD. (Dept. C91) Eagle Steelworks, Heywood, Lancs, Tel. 69018 London: (Dept. C91) 5/6 Staple Inn, W.C.1. Tel. Holborn 5223

GOOD SHOW!

Here's another list of 29 chemists who have won

£5 SPOT CASH EACH

for showing



C. H. Patrick,
Twyford, Berks
Arthur Duckworths Ltd.,
Colne, Lanes
Hayward of Highgate Ltd.,
London, N.6
J. H. Hoyle,
Stacksteads, Lanes
L. Hayward Ltd.,
London, N.10
E. H. Reeder,
Preston, Lanes
J. W. West,
London, N.15
Barnes Pharmacy,
South Oxhey, Nr. Watford
Howe Chemist Ltd.,
London, S.W.17
Mathison & Scott,
Edinburgh
G. Hughes (Chemists) Ltd.,
Reading, Berks
Smith & Bowman,
Leith, Midlothian
Scaddans,
Reading, Berks
J. M. Munro,
Glasgow, E.1

A. V. GLANVILLE LTD.,
Portsmouth, Hants
S. GIRVAN,
Glasgow, C.1
E. C. SLEEP LTD.,
Portchester, Hants
MISS BELL,
Inverbervie, Kineardineshire
E. S. Breakspear,
Maidenhead, Berks
F. W. M. Bennett,
Arbroath, Angus
LUCAS-SMITH,
Langley, Bucks
WM. J. BLACK,
Blairgowrie, Perthishire
C. G. Harrison,
Slough, Bucks
EDWARD JONES,
Guildford, Surrey
HENRY W. CAIRD,
Forfar, Angus
F. J. FLATMAN LTD.,
HOVE, Sussex
ALISTER BROWN,
Fraserburgh, Aberdeenshire
Morris Swerling Ltd.,
Bournemouth, Hants
P. M. H. Cranna,
Kintore, Aberdeenshire

AND STILL THE SHOW GOES ON!

We shall have more prizes to announce in September. Many pharmacists have told us that the Kwells display pieces have paid off handsomely in profits, quite apart from the £5 cash prizes. They intend to keep them on show to remind family motorists making week-end trips and to catch those who take holidays in late August and September, or who can afford to avoid the English winter.

IF YOU WISH TO RENEW YOUR KWELLS DISPLAY MATERIAL ask your Nicholas representative when he calls or get in touch with The Sales Manager who will be pleased to meet your requirements immediately.

NICHOLAS (1



PRODUCTS

SLOUGH .

BUCKS

TEL: SLOUGH 23971



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

THE WEEKLY NEWSPAPER FOR PHARMACY and all sections of the drug, pharmaceutical, fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and of the Pharmaceutical Society of Northern Ireland

Volume 182

August 15, 1964

No. 4409

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PUBLISHED BY

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MORGAN BROTHERS (PUBLISHERS), LTD., at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565

MEMBER OF THE AUDIT BUREAU OF CIRCULATIONS

MORGAN BROTHERS (PUBLISHERS), LTD, 1964

GLASGOW: 160 Nether Auldhouse Road, S.3. Phone: Langside 2679. LEEDS, 16: 32 Wynford Rise, West Park. Phone: Leeds 67 8438.

ANNUAL SUBSCRIPTION

which includes The Chemist and Druggist Diary and Year Book, £3 10s. Single copies 1s. 3d. each (postage 5d.).

Palatable facts about FERSAMAL



THREE TABLETS

per day

195 mg

FERROUS IRON

per day

1%

HAEMOGLOBIN RISE

per day

Fersamal Tablets contain ferrous fumarate, a form of iron that is remarkably free from toxic and side effects. The tablets are small and easy to swallow; they do not constipate and do not normally stain the teeth.



Glaxo Laboratories Ltd

The ferrous iron content of each tablet is 65 mg. A daily dosage of three tablets provides more than the 180 mg. of iron normally needed for satisfactory haemoglobin regeneration.

The name Fersamal is a trade mark of Glaxo Laboratories Limited

Three Fersamal Tablets a day can produce the customary haemoglobin rise of 1% per day.

TABLETS

Tubes of 100 and 1000 Retail prices 3/4 and 26/8. Trade prices 30/- per doz. and 20/- each. SYRUP Bottles of 6 fl. oz. Retail price 4/8. Trade price 42/ -per doz. Volume 182

AUGUST 15, 1964

No. 4409

Hospital Pharmacy

RECRUITMENT DIFFICULTIES REPORTED

THE difficulty of obtaining qualified staff for hospital pharmacies is noted in recent reports in the national Press.

The Times, August 11, refers to the Hammersmith hospital closing their general out-patients' dispensary "because it cannot get enough pharmacists." The service has been restricted to cases where a drug is not available through retail chemists and to out-patient hardship cases." The report continues "The hospital said yesterday that they were short of a pharmacist in April 1963, and had advertised in the British pharmaceutical press ever since but had had no applications. Early this year they started advertising for a senior pharmacist in the same way to run the hospital's sterile products laboratory. No applications had been received for that post either. In May the hospital's deputy chief pharmacist left to get married. Only recently had an application for that post come in. The hospital have advertised in the Australian, New Zealand and Canadian pharmaceutical press and have had a number of inquiries." The Pharmaceutical Society is quoted as blaming hospitals' recruitment difficulties on the Ministry of Health salary scales. In the Daily Express, August 12, a 10-in, headline proclaims "Hospital Girls Resign" with a subheading "Overworked, Underpaid, They Demand Action in Dispensary Crises." The opening paragraph reads "Four girl pharmacists have resigned from one of London's leading hospitals in protest. in protest against overwork—dramatising a growing revolt among the staffs who mix patients' medicines." Included in the report are details of a letter of resignation from one senior and three basic grade pharmacists of University College Hospital, stating:—" We can no longer stand by and see a necessary service collapse through the inactivity of people with power to alleviate at least some of the causes of this unacceptable situation." The report goes on "They said they would withdraw their notices if some 'concrete and sincere action' were taken. But the resignations were accepted.'

Toilet Preparations

THREE MONTHS' SALES DISAPPOINT

MANUFACTURERS' sales of toilet preparations in the United Kingdom during the three months ended May 31 totalled £18.4 millions (at current prices), which was only 1 per cent.

higher than in the corresponding quarter of 1963, according to the Board of Trade's Business Monitor. Total value of sales to the home market was similar to that of a year earlier, only "other toilet preparations" showing an increase (of 3 per cent.), while sales of perfumes and toilet waters fell by 15 per cent. Sales of both hair and dental preparations were slightly lower. However, export sales in the same period rose by 8 per cent. Allowing for the increase of nearly 4 per cent. in wholesale prices of toilet preparations over the past year, it is estimated that the volume of sales in the period under review was nearly 3 per cent. lower than a year earlier. The home market accounted for £15.8 millions of the total sales. Home sales of perfumes and toilet waters accounted for £617,000; hair preparations for £5.7 millions, dental preparations for £2.8 millions and other toilet preparations for £6.7 millions. The value of toilet preparations shipped overseas was £2.5 millions.

DISTINGUISHING AN OPEN - FRONTED PHARMACY: A problem arising from many pharmacy modernisa-tions is how to come up to date yet con-tinue to give the "pharmacy impression" -to remain distinctively pharmaceutical tively pharmaceutical and not risk being mistaken for a super-market or other retail establishment. The problem is perhaps es-pecially difficult with modern openfronted window, When customers look into the pharmacy they may receive a good impression from the planning and set-up, but in a street full of shop-fronts the pharmacy still needs to be easily



identified. A carboy in the window would doubtless serve to convey the message, but a carboy, is usually bulky, often in the way, and must always, to some extent, obstruct the view into the pharmacy. To overcome the difficulty Mr. Mervyn Madge (superintendent pharmacist of the Plymouth Co-operative Society, Ltd.) has experimented and found the practical solution seen in the illustration — an outline carboy and an outline pestle and mortar painted on the window. White edged with red he found most effective. The outline method allows the public to see clearly into the pharmacy while still receiving the "pharmacy" message. Much favourable comment has been made by customers, especially by visitors looking for a pharmacy in a town in which they are strangers.

Chemical Laboratory

REORGANISATION SUGGESTED

THE report of the National Chemical Laboratory for 1963 (H.M. Stationery Office, price 5s. 6d.) contains a recommendation by the Laboratory's steering committee that the Laboratory should reorganise its programme in five main parts. For each of the five (analysis and instrumentation, chemical physics, inorganic and mineral chemistry, organic chemistry and surface chemistry) one division of the labora-tory would be responsible. The report also mentions the discovery of a novel carbocyclic ring system, cyclotribenzy-lene, consisting of a cyclononatriene ring with three separate benzene rings fused to it. In reports of work on the corrosion of metals a method of inhibiting the corrosion of steel in contact with waters of high chloride con-tent is mentioned. Small quantities of polyphosphate, together with selected divalent cations, were found, when added to the water, to reduce the corrosion to a small value.

Anthrax Prevention

INCREASE IN GOVERNMENT FEES

IMPORTERS of goat hair and other materials which have to be disinfected at the Government Wool Disinfecting Station, Liverpool, will have to pay higher fees from November 1. The Anthrax Disinfection Fee Rules, 1964 (S.I., 1964, No. 1231) (H.M. Stationery Office, price threepence), provide that the fee payable by the importers shall be increased by one-halfpenny per lb. from 3½d, to 4d. The new rules repeat existing provisions for a minimum charge of 7s. 6d. for any one delivery of infected goods disinfected at the station. The Minister has also increased the fee for disinfecting camel hair and horse hair sent voluntarily to the station by one penny per lb.

Oral Contraceptives

WIDER USE IN CLINICS

ORAL contraceptives are now available from 274 of the Family Planing Association's 409 clinics, says the Association's report for the year 1963-64. Nearly 14,000 patients attended for the method during 1963—a "considerable increase" over the previous year's figure. Clinical trials of intra-uterine plastic devices have been started, but the Association welcomes the ability now to hand over some of its responsibility for testing new clinical and oral contraceptives to the Committee on the Safety of Drugs. Tests for spermicidal efficiency and acceptability are, however, being continued. In future the Association will approve as condoms only those that have been granted the B.S.I. certification mark.

SCOTTISH NEWS Drug Tariff

REVISED PRICES AND SPECIFICATIONS

THE prices of a number of preparations included in sections 1 and 2 of the Drug Tariff, Scotland, have been revised. They include a number of mercury preparations, some infusions, liniments, tinctures and ointments. Among the appliances listed in section 4 of the Drug Tariff, the prices of calico, crepe, domette, flannel and white open-wove bandages have been revised as have those for cotton wools and gauzes. The specifications for appliances contained in section 4 of the tariff have been amended or added to, and the entire entries under hypodermic needles and hypodermic syringes have been replaced. Polythene gloves, disposable and polythene occlusive dressings replace battiste, B.P.C., gutta percha tissuc, B.P.C. 1934, and oiled cambric, B.P.C., as available protectives, Polythene is also included as sheeting and layflat tubing.

Retail Marketing

GRAMPIAN TELEVISION'S AUTUMN SERIES

PHARMACY figures prominently in a series of programmes on retail marketing and allied subjects that are being transmitted by Grampian Television (North and Fast Scotland) during September and October. The programmes are being screened during normal latenight transmission hours. Specialist lecturers will speak and a group of Scottish retailers and businessmen will be invited to the studio to ask questions of each speaker. Transcripts of the lec-

tures are later being published as booklets. Speakers in the series (in order of appearance) include Messrs. A. F. Colborn (director, Institute of Marketing and Sales Management), who will introduce the series; K. S. D. Wilmshurst (director of marketing and merchandising, London Press Exchange) on "Marketing, Merchandising and Display"; H. W. Tomski (Allen & Hanburys, Ltd.) on "Pharmacy Retailing in Great Britain as Compared with U.S.A. and West Germany"; and J. W. Jamison (managing director, Aspro-Nicholas Group) on "The Chemist in the '60's."

IRISH NEWS

THE REPUBLIC

Cosmetics Association

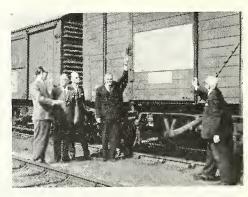
MEETINGS WITH MANUFACTURERS

DISCUSSIONS have recently taken place between representatives of the Irish Chemists' Cosmetics Association and those of two pharmaceutical manufacturing firms on problems affecting the retailing and distribution of cosmetic products. On July 21 Miss D. Tobin, Miss U. O'Connor and Messrs. T. Walsh and E. O'Brien met Messrs. J. J. Gotti and Rowley (Coty (England), Ltd., and on July 23 the Association's delegates, Mrs. M. Kelly and Messrs. T. Walsh and N. O'Farrell had talks with Irish Pharmaceuticals, Ltd., who were represented by Mr. H. Palmer.

IRISH BREVITIES

THE Wellcome Trust is providing a grant of £3,895 to be used by Dr. O'Morchoe at the School of Anatomy, Trinity College, Dublin, in his studies of the lymphatic system of the kidney.

The Trust has made grants totalling over £125,000 to the College for research in medical and allied sciences.



MEDICAL SUPPLIES FOR BURMA: Largest single export order to leave the plant of William R, Warner & Co., Ltd., Eastleigh, Hants, left by rail on July 27 en route, by the British Railways Solent Express freight service, for Burma. The load filled thirty wagons and was the largest eonsignment from a single firm to be carried by the service. The train travelled nonstop, arriving the following day at Birkenhead dockside, where the drugs were loaded on to the S.S. "Kalau." The order was placed with the company by a buying agency of the Burmese government. In the picture Mr, R, J, King is seen locking the last wagon. With him are Messrs, R, J, Hamilton (export sales manager, lay pharmaceuticals and toiletries), G, W. Nosotti (export director), R, S, Iredale (export marketing manager) and J, S, Stone (British Rail-ways goods agent).

OVERSEAS NEWS

ARGENTINE

Product Legislation

THE Argentine Senate has approved new legislation governing the import and export of drugs, chemicals and reagents. The legislation enables regulations to be issued controlling the production, manufacture, fractionating and marketing of products for use in human medicine. To carry on such activities requires the authorisation of the Ministry of Welfare and Public Health. The work may be carried on only by approved personnel in establishments authorised by the Ministry. Any medicines offcred for sale must be labelled with registration and possibly other particulars, and the Ministry may insist upon the production of packs of specific sizes. Part of the registration procedure sets out maximum prices for certain medicines. It is intended that the Government shall create an Institute of Pharmacology for the standardisation of drugs and medicines to carry out the analytical control of products. The Institute, in which the Government is empowered to invest up to 100 million pesos, will be subordinate to the Ministry of Welfare and Public Health. Penalties for offences against the Act include fines ranging from 2,000 to 5 million pesos, suspension or disqualification, confiscation of products and cancellation of authorisation to sell or manufacture.

NEWS IN BRIEF

SOUTHAMPTON Executive Council has decided not to reintroduce the weekend rota dispensing service, which was suspended for a trial period in 1963.

THE Medical Research Council has established a cell genetics research unit and research groups for the study of oculogenital infections, basic immunology, and thrombosis.

More than £58 millions has been earned in gross bonus by employees of Imperial Chemical Industries, Ltd., and those subsidiaries participating in the scheme in the ten years since the profit-sharing scheme was introduced.

The Agricultural Research Council has published the second biennial report of the Institute of Animal Physiology, Babraham, Cambridge, covering work published in 1962 and 1963. Copies are obtainable from H.M. Stationery Office, price 7s. 6d. each.

A CUSTOMER at Kettering Co-operative Chemists, Ltd., 57 Corporation Street, Corby, Northants, after asking an assistant to show him a cine camera, sent her to the rear of the shop for a box, picked up the camera (valued at £50) and walked out without paying for it.

THE Dangerous Drugs Act. 1964 (Modification) Order, 1964 (H.M. Stationery Office, price threepence) brings fentanyl and norpipanone within Part III of the Dangerous Drugs Act, 1951. [The substances should be added to the compounds previously listed (see C. & D., July 18, p. 52).—EDITOR.]

An appeal to the Ministry of Housing and Local Government by André Philippe. Ltd., against the Fulham and London County Councils' decisions not to grant building permission for an extension to the company's factory has been successful and the plans are being put in hand for the extension immedi-

ately.

AN examination of patients' abuse of the National Health Service is to be carried out by the General Practitioners' Association. The Association is sending questionnaires to 5,000 doctors and 5,000 patients asking, among other things, for reactions to the proposal that doctors should charge a fee for each consultation.

THE Weights and Measures (Equivalents for Dealings with Drugs) Amendment Regulations, 1964 (H.M. Stationery Office, price threepence), effective July 31, is identical with an earlier Statutory Instrument with a similar title (S.I. 1964 No. 81) except that the clause applying the regulations to amendments or subsequent editions of the B.P. 1963 or the B.P.C. 1963 is no longer effective.

THE first State register of chiropodists has been published (price £1, post free) by the Chiropodists' Board, York House, Westminster Bridge Road, London, S.E.1. From October 1, hospital management committees and local authorities may employ only those chiropodists whose names appear on the register. Registered persons will have attended an approved three-year training course or have shown their competence to practise by experience. They will be able to use the title State Registered Chiropodist (S.R.Ch.).

Courses and Conferences

EVENING courses are offered at the Sir John Cass College, Jewry Street, Aldgate, London, E.C.3, for the 1964-65 session in the subjects of Distillation; Gas Chromatography; Fundamentals of Microbiology; Applied Microbiology; Molecular Spectroscopy; Spectrochemical Analysis; Patents; and Trade Marks.

A FIVE-DAY course on the correct techniques of manual lifting and handling has been planned by the Industrial Welfare Society in association with the Central Council of Physical Recreation at Boots College, Nottingham, for August 24-28. Problems of filling vacancies are being dealt with in a three-day course being held at the Society's headquarters, October 7-9. The range of selection techniques available including sources of recruitment, advertising, employment interviewing and intelligence testing will be reviewed. Programmes are available from the Society, 48 Bryanston Square, London, W.1.

SPORT

Golf.—MANCHESTER AND DISTRICT PHARMACEUTICAL GOLFING SOCIETY. A four-ball Stableford competition was played at Whitefield golf club on July 22 for prizes donated by Robinson & Sons, Ltd. Winners were L. M. Wise and W. Glass.

LOCAL OFFICERS

PHARMACEUTICAL SOCIETY

West Kent.—Chairman, S. J. Hamer; Vicechairman, B. M. Rusling; Treasurer, A. W. Jutton; Assistant secretary, B. Mendelson; Secretary, W. E. Walton, 184 High Street, Penge, London, S.E.20 (Telephone: Sydenham 5601).

TOPICAL REFLECTIONS

By Xrayser

Survey

Following the recent address in Edinburgh by Dr. G. H. Macmorran (resident secretary, Scottish Department of the Pharmaceutical Society), in the course of which he surveyed the distribution of pharmacies in Scotland, we now have (p. 120) the data collected by analysing the replies to a questionnaire sent out by the Society a little over a year ago. Your summary of the report is most valuable, since four speakers will be using the report as basis for an examination of the subject of man-power in pharmacy at the Conference in Edinburgh next month. As I noted at the time of Dr. Macmorran's address, the collecting of information and statistics is a laborious task, but not an insuperable one. The problem arises in attempting to read the future from the facts that have been gathered, and that is no easy task. Interpretation of the data is dependent on many imponderables. Looking back through my notes, I find that a survey of recruitment to the profession was carried out by the Council's Education Committee a year or two before the 1939-45 war, and the report was the subject of severe criticism by Mr. J. C. Somerville at a branch meeting in Edinburgh in 1938. His advice on that occasion was that the assistance of an actuary was essential in interpreting such figures as were produced at that time. Something of that kind seems to have been done in what is now before us. But there are imponderables beyond even the trained mind of the actuary, who must assume that conditions will not change dramatically in a period to be foreseen. We are already in a state of change. With the coming into effect of the Robbins report, together with the oft reannounced attitude of the Council toward the degree route into pharmacy, it must be assumed that, long before 1982 or 2002—both of which are mentioned in the survey just published—the diploma will have ceased to be, and its holders will account for a diminishing percentage of those on the register. That is foreseen in the survey, and it is of the greatest importance to all concerned.

Keeping up the strength

There seems to me to be in the survey mentioned, and in a number of other investigations undertaken by the Society, a preoccupation with the need for maintaining the register at full strength—a matter of the present 27-28,000, though I note that it is the opinion of those who conducted the survey that the numbers might have dropped by 1982 to approximately 25,000. Both the preoccupation of the Council and the opinion of the statistical experts involve an acceptance that the present figure, reached by supply and demand, laissez-faire and a host of completely uncontrolled and unrelated factors, is necessarily the correct strength. But for what purpose is it the correct figure? For the existing population? For its geographical distribution? For the pharmaceutical needs of the population? And what kind of pharmaceutical needs? (I am asking the questions—I do not pretend to have the answers.)

Divergent views

One has to look no further than your correspondence columns over the past week or two to be made aware how far pharmacy has travelled from its original path. One correspondent had his susceptibilities wounded by being offered nylon stockings to show on his counter, the offer being accompanied by a photograph of a pharmacist who had had some success with the venture. (Had I been the recipient of the letter in question I don't think I could have written so temperately as your correspondent.) A reply to the letter on p. 126 last week had me puzzled for a few moments. Here, surely, was irony in excelsis. But as I read on I was not so sure. If the second letter is to be taken seriously it seems that, with the numbers engaged in pharmacy, the public may only have the present pharmaceutical service if they will also buy their nylons from the pharmacy. I wonder when the schism will take place. That is an imponderable that may be resolved when the degree route to the register is the only one, and the first contact with pharmacy is straight from the university.

Drugs (Prevention of Misuse) Act

THE COMPOUNDS THAT ARE CONTROLLED

THE text of the Drugs (Prevention of Misuse) Act, 1964, has been published (H.M. Stationery Office, price one

shilling).

The Act takes effect in two stages. The first, a period of three months from July 31, enables the Home Office to initiate the procedure of registration of dealers "in bulk," and prepare the licences for importers in time for the operation of the main provisions of the Act which come into force at the end of October. After that date the Act (see C. & D., April 4, p. 332) makes it an offence for anyone to be in possession of a controlled substance unless he is in one of the listed categories or is exempted by regulations made by the Home Secretary

The listed categories include doctors, dentists, veterinary surgeons and pharmacists who need to be in possession for purposes of their business or em-ployment. Members of the public may have a scheduled substance provided it is in their possession by virtue of the issue of a prescription by a duly quali-fied medical practitioner or registered dental practitioner "for its administration by way of treatment to him, or

to a person under his care."

The substances referred to in the Act are listed in the Schedule and are as follows:-

- 1. β -aminopropylbenzene.
- 2. β -aminoisopropylbenzene.

3. Any compound structurally derived from either of the substances aforesaid by substitution in the side chain or by ring closure therein (or by both such substitution and such closure), except ephedrine, N-ethylephedrine, N-methylephedrine, oxethazine, phenylpropanolamine and prenylamine and tropic acid N-ethyl-N-(ypicolyl) amide.

- 4. Chlorphentermine.
- 5. Pemoline.

Any salt of either of the substances specified in paragraphs 1 and 2 above, of a compound falling within paragraph 3 above or of either of the substances specified in paragraphs 4 and 5 above.

7. Any substance containing any proportion of either of the substances specified in paragraphs 1 and 2 above, of a compound falling within paragraph 3 above, of either of the substances specified in paragraphs 4 and 5 above or of such a salt as is mentioned in paragraph 6 above.

The following lists the compounds that are controlled together with structural formula and, where known the proprietary products offected.

1. β -Aminopropylbenzene.

Amphetamine:—Benzedrine (S.K.F.); Edrisal tablets (S.K.F.). Dexamphetamine:—Adetate Elixir (M.S.D.); Amphactil tablets (M. & B.);

Amphetone syrup (B.D.H.); Anxine tablets (A. & H.); Barbidex tablets (Nicholas Labs.); Daprisal tablets (S.K.F.); Dellipsoids D.25 (Modkem); Dephadren tablets (P. & B.); Dexamed tablets (Medo); Dexamphetamine tablets, B.P.; Dexedrine spansules (S.K.F.); Dexobarb tablets (Medo); Dexocodene tablets (Medo); Dexten tablets (Nicholas Labs.); Dexytal capsules (Lilly); Drinamyl spansules (S.K.F.); Drinamyl tablets (S.K.F.); Leviton "Ovets" (Br. Schering); Potensan tablets (Medo); Rybrol tablets (Rybar); Steladex spansules (S.K.F.): Stimplete elixir (Wyeth); Thyrodex tablets (P. & B.); Thyrophem tablets (Armour).

L-amphetamine: - Levanor (Genato-

san), Levonor tablets (Genatosan).

Mixtures of dextro and laevo amphetamines:

— Durophet capsules (Riker); Durophet-M capsules (Riker).

2. β -Aminoisopropylbenzene.

No commercial preparation offered in U.K. but Vonedrine (Merrill) con-taining phenylpropylmethylamine, structural formula as follows, is available in U.S.A.

Vonedrine (Merrell, U.S.A.).

Any Compound Derived from 1 or 2 by Substitution in the Side Chain.

Benzphetamine.—Didrex (Upjohn).

Diethylpropion: - Tenuate and Tenuate Dospan (Merrell); Apisate tablets (Wyeth); Tikobes (Astra-Hewlett).

Mephentermine: - Mephine, elixir, tablets and injection (Wyeth).

Methylamphetamine: - Desbutal capsules (Abbott); Diesed tablets (Bayer); Eleval tablets (Gedeon Richter); Euphoramine tablets (Rybar); Metamsustac tablets (Pharmax); Methotablets and injection (Wellcome). Methedrine

Phenatine.

Phentermine:—Duromine capsules

4. Any Compound Derived from 1 or 2 by Ring Closure in the Side Chain.

Tranylcypromine:—Parnate (S.K.F.); Parstelin elixir and tablets (S.K.F.).

Any Compound Derived from 1 or 2 by Substitution in the Side Chain and by Ring Closure Therein.

Fencamfamin:—Euvitol tablets and elixir (A. & H.).

Methyl Phenidate:—Ritalin injection and tablets (CIBA).

Phendimetrazine:—Plegine (Ayerst,

Phenmetrazine:—Filon (West Pharm.); Preludin (Boehringer).

Pipradrol:—Meratran tablets (Merrell).

Prolintane: - Villescon (Boehringer).

6. Chlorphentermine.

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Chlorphentermine:—Lucofen and Lucofen SA (Warner).

7. Pemoline.

$$\begin{array}{c|c} -c & + & c = NH \\ \hline & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$$

Pemoline: —Kethamid (Medo); Potensan Forte (Medo); Ronyl (Rona); Volital (Labs. for Applied Biology).

Exemptions

Note:—The Schedule to the Act includes specific exemptions for the following:—ephedrine; N-ethylephedrine; N-methylephedrine; N-diethylaminoethylephedrine; oxethazine; phenylpropanolamine; prenylamine and tropic acid N-ethyl-N (γ-picolyl) amide.

LEGAL REPORTS

Wholesale Purchase Attempted

At the Marine police court, Glasgow, on July 29, Mrs. J. Bannon, Kelvinhaugh Street, Glasgow, was fined £5 for fraudulently obtaining 1,000 Dexedrine tablets from T. & H. Smith, Ltd., Killearn Street. The court was told that the woman had telephoned an order for the tablets, pretending she was a representative of a Cardonald pharmacy. When the wholesalers checked with the pharmacists they learned that no such order had been placed by them. The police were informed and arrested Bannon after she had collected the goods.

Acting as Delivery Agent

It was claimed at Horncastle, Lincs, magistrates' court recently that a bottle of Codis tablets sold at a drug store to an inspector of the Pharmaceutical Society had been specially ordered through a qualified person, and that the drug store was merely acting as a delivery agent to the customer. Pamela Mary Robinson, Roland David Broughton and Christina Broughton were jointly charged with selling codeine phosphate at their drug store at Tattershall while not authorised sellers of poisons, and with selling a poison in a container not properly labelled. Defending solicitor pointed out that the tablets had been bought from, and bore on the container the name of, the husband of Mrs. Robinson, one of the defendants. The defendants, who all pleaded guilty, were fined £2 each on each charge and ordered to pay £12 12s. advocate's fee. Announcing the fines, the chairman of the Bench said it was recognised that there were special circumstances in the case.

"Riddled With Fraud"

A "CHEMIST'S" business at Boreham Wood, Herts, was "riddled with fraud from beginning to end," alleged Mr. W. A. B. Forbes, prosecuting at Hertfordshire Assizes, recently. He alleged that the business, Leeming Road Chemistry Ltd. which operated for less than ists, Ltd., which operated for less than four months in a shop on a London County Council estate at Boreham Wood, was run by Jack Jacob Besser, an undischarged bankrupt, and his wife. When they sold the shop and its stock in February 1962, and went to Spain and Majorca, they left behind creditors to whom they owed more than £9,000. When arrested in April this ways they were living in April this year they were living in a new bungalow in Essex Park, Church End, Finchley. At the end of the five-day trial the jury found them both guilty of carrying on a business with intent to defraud creditors. Jack Besser was also found guilty of obtaining £530 credit from a shopfitter and £81 credit from an electrician while still an un-discharged bankrupt; being concerned while bankrupt in the management of a company; and obtaining £1,700 by falsely pretending he had lent the money to the company. Mrs. Besser was convicted of fraudulently converting £2,264, part of the proceeds of the sale of the business, and fraudulently converting two National Health Executive prescription cheques for £371 and £203. Besser was jailed for three-and-a-half years and his wife for two years, and both were disqualified from holding any office in a company for five years. Asked why the business had been sold so quickly, Besser said that, shortly after his wife had opened the shop, a Pharmaceutical Society inspector

arrived and ordered the shop to be closed because it was not then a limited company with a qualified pharmacist as a director. It was reopened when the company was incorporated a few days later with the shop's pharmacist as a director, but from that time Mrs. Besser had been "pestered every few days by the Society," partly because she had decided to remain open from 9 a.m. to 9 p.m.

COMPANY NEWS

Previous year's figures in parentheses

UPJOHN CO., U.S.A.—Sales for the first six months of the year totalled £35,761,787, a rise of 7.6 per cent. compared with the same period in 1963. Earnings for the period at £4,602,143 were up by 3.2 per cent.

WILLIAM R. WARNER & CO., LTD.—The company have made a bid of 28s. a share cash offer for Hall Brothers (Whitefield), Ltd., Manchester, manufacturer of sweets, etc. The offer is reported to be worth £1·3 millions.

COCKBURN & CO., LTD. — Net profit for year ended March 31, £8,251 (loss £2,423) after tax, £6,623 (£62). Ordinary dividend 5 per cent. (same). Fixed assets £205,905 (£183,783). Current year's sales are considerably higher to date and directors are confident of a big improvement in results for year.

MACARTHYS PHARMACEUTI-CALS, LTD.—A final dividend of $15\frac{1}{2}$ per cent. is being recommended, making a total of 24 per cent. for the year ended April 30 (20 per cent.). Subject to the completion of the audit, the consolidated profits are £175,889 (£108,982) less taxation of £86,522 (£52,430). Retained profits are £53,621 (£26,337).

PLOUGH, INC., Memphis, Tennessee, U.S.A.—Net sales during the six months ended June 30 at £31·1 millions were 8 per cent. higher than in the corresponding period in 1963. Exports rose 30 per cent. The "ethical" drug subsidiary (Plough Laboratories, Inc.) reported improvements in profits primarily due to "important licensing arrangements with major pharmaceutical companies."

FISONS OVERSEAS, LTD.—Messrs. T. A. Coslett, R. S. Law, D. Sutton, J. F. Thom and J. Valentine have been appointed to the board. At the same time Messrs. J. T. Creighton, F. J. Heath, H. P. P. Hodgkins, A. Robinson, A. S. Woodhams and Dr. E. Parry Jones—who are on the board of Fison's international division — have relinquished their appointments to the board of Fisons Overseas.

SANGERS. LTD.—The group incurred a loss of £44,573 in the year ended February 29 (compared with a profit of £20,040 for the previous year). The loss was arrived at after charging expenses of some £50,000 directly applicable to the reorganisation of the business, state the directors. A complete reorganisation of all the operations of the group commenced in August 1963. This is still proceeding and will carry on during 1964-65. Goodwill and trade marks have been written off and certain assets written down; as a result,

reserves at February 29 stood at £336,525 (£917,281). There is no Ordinary dividend for the year, as before, and the Preference dividend for the half-year due on July 31, will not be paid—one year's dividend is now in arrears. The net loss is £29,406 (net profit £10,250) after a tax, etc., credit of £15,167 (£9,790 charged). The chairman (Mr. L. A. Renshell) is to give a full review of the steps taken to reorganise the group, and of its affairs in general, in his statement accompanying the accounts.

BUSINESS CHANGES

MR. H. A. O. HOW, M.P.S., proprietor of the 147-year-old pharmacy business of T. M. Ashford, Market Square, Aylesbury, Bucks, has closed down the business because of town council development plans.

BECAUSE of redevelopment in the area, the registered office of Sangers, Ltd., has been changed to 25 Tolmer's Square, Hampstead Road, London, N.W.1. The warehouse and general office continue to operate from the same premises as previously.

THE pharmacy of T. R. Sparrow, Ltd., 26 High Street, Bridgnorth, Shropshire, is now trading under the name of its new owner, Mr. W. W. Cameron Price, formerly for 18 years in business at Oxford. Mr. Cameron Price took over the Bridgnorth shop recently from Mr. T. Sparrow who is now a lecturer at Wolverhampton Technical College.

R. WESTON (CHEMISTS), LTD., have acquired the whole of the share capital of Gordon Lock (Grimsby), Ltd., who have branches at 16A Old Market Place; 7 Chantry Lane; and 258 Freeman Street, Grimsby. The acquired company will continue to operate as Gordon Lock (Grimsby), Ltd., until December 31.

Appointments

GATESHEAD CO-OPERATIVE SO-CIETY, LTD., have appointed Mr. J. S. Hutchinson their superintendent chemist.

ORTHO PHARMACEUTICAL, LTD., Saunderton, Bucks, have appointed Mr. A. G. Johnstone, B.Sc., their marketing manager.

GEORGE SPENCER & SON, LTD., have appointed Mr. D. E. Benn, 9 Leafield Drive, Cheadle Hulme, Ches, their area manager for Lancashire, Cumberland and Westmorland, and Mr. J. Leckie, 2 Atholl Place, Edinburgh, 3, their Scottish area manager.

BOOTS PURE DRUG CO., LTD., Nottingham, have appointed Mr. T. J. Law head of their farms and gardens buying department. Mr. Law succeeds Mr. D. Cargill, who has recently taken charge of the company's own manufactured farms and gardens products.

ERNEST JACKSON & CO., LTD., Crediton, Devon, announce that, as a result of territory reorganisation, Mr. F. L. Kempson, M.P.S. (for many years North London and Middlesex representative) has taken over the counties of Kent, Sussex and Surrey. Mr. G. S. McNamara has been appointed

to take over Mr. Kempson's old territory. Mr. P. F. Lobb (representative for the South of England territory for the past 35 years) has now been appointed office manager at Crediton and Mr. M. E. Hounsell has been appointed to succeed Mr. Lobb.

MARRIAGES

WILLIAMS—OWEN.—At the Welsh Presbyterian church, Hirael, Bangor, Caernarvons, on August 5, Aneurin Williams, Cilfyndd, Pontypridd, Glam, to Ccris Owen, M.P.S., Aigburth Road, Liverpool, 17.

DEATHS

JAQUES. — Recently, Mr. Arthur Jaques, M.P.S., 56 Kingsway, Bourne. Mr. Jaques, who qualified in 1930, had been chief pharmacist for the past three

years at Stamford and Rutland Hospital, Stamford, Lines.

McKeever, M.P.S.I., Watergate Street, Navan, Eire. Mr. McKeever qualified in 1917 and, after working in pharmacies in Oldcastle and Bray, opened his own pharmacy in Navan in 1920. A colleague writes that Mr. McKeever, though not actively associated with pharmaceutical organisations was a loyal member who conducted his pharmacy on the most ethical lines. He was an uncle of Mr. Leo McKeever, M.P.S.I. (regional manager, Geigy Pharmaceutical Co., Ltd., Dublin) and of Miss Barbara McKeever, pharmacist attached to the Meath hospital, while Mr. J. V. McKeever, M.P.S.I., Clare Street, Dublin, was a first cousin.

PHOTOGRAPHIC NOTES

Free Mounting Service. — Gevaert, Ltd., Great West Road, Brentford, Middlesex, are now returning all half-frame transparencies in cardboard mounts in a hinged plastic box, free of charge.

Directing a Spray. — The "instant photo mount" of Sheddark, Ltd., 21 South Molton Street, London, W.1 (see C. & D., July 25, p. 80) should, say the makers, be used with the nozzle directed downwards or forwards [in the illustration as used, the can was shown to enable the lettering to be easily read, which meant directing the spray upwards: a wrong method of usel.

Sales Aid. — A space-saving price ticket devised by Photopia, Ltd., Hempstalls Lane, Newcastle, Staffs, is now being sent out with Edixa Prismat cameras. Claimed to protect the lens from dust and dirt, and the mirror and screen against the focused rays of the sun, it consists of a circular card, bearing camera details and price, and is attached to the lens mount by a strip of foam plastic.

Award-winning Slide Box. — The 35-mm. transparency slide box of Robinson & Sons, Ltd., Chesterfield, Derbys, was one of the only two British entries to receive any award in this year's International Rigid Box Contest sponsored by the National Paper Box Manufacturers' Association, Inc., Philadelphia, U.S.A. It received



an "excellence in packaging" award. The box, rigid and plain wrapped within tan paper with a wood-finish effect, is claimed the most inexpensive transparency box on the British market. The base is paper and board, well-

executed to hold the slides in place, with printed wrap to give each slide a number.

Free With Camera.—Each of the next 10,000 Minolta cameras sold by Japanese Cameras, Ltd., 50 Piccadilly, Tunstall, Stoke - on - Trent, Staffs, will be accompanied by a free gift of a geisha girl doll about $6\frac{1}{2}$ in. tall dressed in traditional Japanese costume and carrying a sheaf of flowers.



Universal Plug.—Johnsons of Hendon Ltd., Hendon Way, London, N.W.4, announce that they have been appointed sole distributors to the photographic trade of the Fitall five-in-one universal fused plug, which fits sockets of five types: 13 amp. fused, 15 amp. three or two pin and 5 amp. three or two pin. The plug is supplied in display pack of ten or separately if desired at a retail price of 12s. 6d. per plug.

Addition to Colour Processing Plant.—Photo Finishers (Sheffield), Ltd., Union Road, Sheffield, 11, have installed additional equipment to the value of £85,000 which, it is stated, will increase their output by almost 50 per cent. It includes an automatic developing machine capable of handling 240 colour films per hour, additional printing machinery and a continuous triple band colour print processer.

Self-timer with Variable Delay. — The Konishiruku Photo Industry Co., Japan, has produced the Konica self-timer for cameras without such a device built-in. The delay is variable from five to fifteen seconds and the knob used to set the timer rotates when the mechanism is released, enabling the time remaining before the shutter fires to be estimated. The self-timer is claimed to fit any camera having a standard cable release socket. Agents in the United Kingdom are Pullin Optical Co., Ltd., Ellis House, Aintree Road, Perivale, Middlesex.

NEW PRODUCTS AND PACKS

PHARMAGEUTICAL SPECIALITIES

Available. — On Generally August 10, Pfizer, Ltd., Sandwich, Kent, made available through retail channels their hypotensive agent Envacar (Pfizer brand of guanoxan sulphate) (see C. & D., December 21, 1963, p. 647). Previously supplies were restricted to hospitals under the company's policy of exhaustive investigation before marketing. In consequence, say Messrs. some practitioners have been Pfizer. caused inconvenience in providing continuity of treatment when the patients have left hospital. That was the motive in making Envacar generally available. It is issued as 10-mgm. and 40-mgm. white, scored tablets in pack of 100.

FOODS

New Baby-food Varieties.—Cow & Gate, Ltd., Guildford, Surrey, who have



long paid special attention to the problems of infants in changing from milk to a mixed diet, developing a range originally called dairy weaning foods and now dairy

"junior" foods, have added six new milk puddings which mothers can give their babies as an introduction to solids. The new varieties are a creamed semolina and honey, creamed semolina and chocolate, creamed semolina and mandarin, creamed semolina and caramel, and creamed semolina and apple milk puddings and a creamed porridge. They may be served hot or cold, and come in 6-oz. tins labelled with a different colour band for each variety. There are thus twelve varieties now available in the range.

COSMETICS AND TOILETRIES

New Cosmetic Shades.—A new shade in the Jewelfast range of lipsticks of Innoxa Laboratories, Ltd., 170 New Bond Street, London, W.1, is "Lollipops and Roses," a pink that "gives lips a soft-spoken emphasis." Other new shades in the range are "Fashion Talk"—orange muted with brown—and "Wild Chinchilla" (brown).

A New Range of Toiletries.—Cussons, Sons & Co., Ltd., Kersal Vale, Manchester, have launched a new and comprehensive range of toilet preparations, Rhapsody, comprising perfume, skin fragrance, aerosol hair spray, talcum powder, roll-on deodorant, toilet soap in three-tablet presentation boxes, and bath cubes. Five gift sets are also offered. The products are in distinctive blue and gold packs and feature a specially formulated perfume.

Deodorant Compact.—A deodorant compact newly launched by Lancôme (England), Ltd., 14 Grosvenor Street, London, W.1, is made of fine, light powder delicately perfumed with Magie. In its compressed form it is easy to use, and is claimed absorbent and astringent. Applied liberally, it does not stain and is effective throughout the day. Its softness enables its use after removal of underarm hair.

Appealing to the American and British Male.—Reversing the usual direction of launchings, a British manufacturer has scored a startling success in the United States with an all-British range of after-shave lotion and Cologne. The two products, Caribbean lime after-shave and Caribbean spice-and-lime Cologne, are understood now to be selling extensively in America. Manufactured by Robinson Bishop, Ltd., of 11 St. George's Street, London, W.1, the



two toiletries present "quality" products in eye-catching packages. The 8-oz. white flint glass container, designed and supplied by Johnsen and Jorgensen, Ltd., is encased in hand-wrapped raffia. An extended neck increases the efficiency of the sprinkler action. The deep screw cap is made of plastic and there is a small polythene neck plug. The two products use essence of lime obtained from the fruit skin, mainly from plantations in Dominica. They are in 4-oz. and 8-oz. sizes. Distributors are George Spencer & Son, Ltd., Kynance Place, London, S.W.7.

In a New and Elegant Bottle. — Johnson & Johnson (Great Britain), Ltd., Slough, Bucks, claim to have "set the packaging trend again" for their new baby shampoo, tall and "tear shaped" with blue and gold



label. The intended "image" is one of the expensive good taste associated with the leading cosmetic houses, plus the gentleness associated with Johnson's baby products. There are two sizes: a $2\frac{1}{2}$ -oz, and a 4-oz, bottle. A single-application sachet is also available. The manufacturers have also tied up with the Chad Valley organisation to offer a "bunny" nightdress case, normally retailing at 50s., for 24s., to purchasers of the baby shampoo. The makers point out that the offer lasts till Christmas.

A Make-up Brush and a Skin Set.—Elizabeth Arden, Ltd., 25 Old Bond Street, London, W.1, have made available a long-handled sable brush for use with the new powder eye shados and invisible (powder) rouges, and for blending powder on the face. Messrs. Arden's Problem skin set, introduced in 1963, has been revised to include the new special cleansing cream as well as Velva Smooth lotion, healing cream, soothing lotion and Ardena masque. "Used faithfully every day," say Messrs. Arden, "these preparations work wonders in helping to correct blemishes, spots, oily skins prone to blackheads, and enlarged pores." A new Velva cream masque is stated to differ from all other masks in being an actual cream that forms a film on the skin. It contains minerals and proteins and its chief purpose is to lift the contour and to firm a relaxed skin.

Tub Shape Modernised. — Beecham Toiletry Division, Great West Road, Brentford, Middlesex, have adopted a tub of new design for Brylcreem. The aim is to give the tubs "a modern,



sophisticated image." The large, flat cap and wider label of the new pack also lend themselves to display. A special "top store" counter unit, constructed of wood and hardboard, with accommodation for all three sizes of Brylcreem, has been produced for displaying the new tub.

Eyelash Beautifier.—Shortly to become available to women customers is a new mascara, "Lash Full," by Max Factor Hollywood and London (Sales), Ltd., 16 Old Bond Street, London, W.1. "Lash Full" is described as a balanced combination of pure mascara with delicate synthetic fibres that closely resemble human hair. Easy to apply, it is claimed to add length and thickness to lashes and to be waterproof and smearproof. The container is refillable. In design it resembles the company's present mascara wand. The

product comes in three shades (for black, brown and brownish-black eyelashes). "Lash Full" is removed with Max Factor's eye make-up remover pads. Also now coming into the shops are Max Factor's fashion lashes (false eye-lashes made of real hair woven on a fine thread) in black or brown. Packed in reusable hinged plastic box (cover clear to show the lashes, which are placed on a specially shaped tray that acts as lash-holder when the lashes are not being worn). The pack also contains a special adhesive in an airtight tube together with full instructions.

High-low Nursery Chair. — Halex division of the British Xylonite Co., Ltd., Highams Park, London, E.4, have added to their Halex nurseryware range a polypropylene chair, available in either blue or yellow, that locks securely in high or low positions. The lap safety belt has a place for clip-



ping on pram harness. The widely spreading base ensures safety with even the liveliest baby. Soft plastic grips prevent the chair from sliding about the floor. The foot rest has three positions, and decoration on the tray cannot be chipped or rubbed off. The material of the chair has a "smooth, tough, easily cleaned surface." The tray is detachable and the stand is finished in white enamel making it easy to clean.



BREATH-SWEETENING AEROSOL: A user sprays his mouth with Halospray mouth freshener. The product is being marketed by Boehringer Ingelheim, Ltd. (proprietaries division), Isleworth, Middlesex, and distributed through Geigy Pharmaceutical Co., Ltd. [corrected note].

TRADE NOTES

Distributors in Eire.—Bengué & Co., Ltd., Mount Pleasant, Alperton, Wembley, Middlesex, announce that Fassett & Johnson (Ireland), Ltd., 6 Crow Street, Dublin, are the new sole distributors for Bengué's balsam in Eire.

Added to Range.—Boots Pure Drug Co., Ltd., Station Street, Nottingham, announce the addition of Nivemycin liquid (neomycin mixture, B.N.F.) to their range of Nivemycin preparations. The pack is a bottle of 60 mils.

An Agent for French Perfume Series. — Parfums Capucci, Paris, France, whose *Graffiti* and *Parceque* perfumes are "favourite perfumes of thousands of women throughout the world," are now being distributed in Britain on an agency basis by Mr. D. S. Howe (many years with Guerlain), 17 Baker Street, London, W.1.

Renamed. — Eylure, Ltd., 58 Bridge Road East, Welwyn Garden City, Herts, have renamed some of their Eylure products. Natural black (RM577) becomes natural daytime black (RM1134); natural mcdium brown (RM579) becomes natural daytime medium brown (RM1135); and natural dark brown becomes natural daytime dark brown (RM1136):

Too Late for List.—The following price changes, details of which arrived too late to be included in the Cumulative List of Price Changes have been notified by Upjohn, Ltd., Fleming Way, Crawley, Sussex. They take effect on August 17. Cortef ointment, 1 per cent., and Cortef acetate ointment, 1 per cent., 5 gm., 2s. 9d.; 20 gm., 6s. 8d.; 50 gm., 13s. 3d.; Cortef ointment, 2·5 per cent., and Cortef acetate ointment, 2·5 per cent., 5 gm., 4s. 6d., 20 gm., 13s. 4d.; 50 gm., 29s.

Hairdressing Book as Bonus.—Lambert Chemical Co., Ltd., manufacturers of Poly hair preparations, Chestnut Avenue, Eastleigh, Hants, are offering for 2s. 9d. plus the carton or bottle top from one Poly product, a colourful 72-p. book on home hairdressing (cover price 7s. 6d.). "Hair Beautiful" tells how to perm, set, style, colour and condition the hair. The many full colour



pages illustrate over fifty hair styles to copy. The showcard, for counter display, is in full colour and shows the actual size of the book, incorporating a pocket containing the application leaflets.

Sunglass Prospects.—Polaroid (U.K.), Ltd., Queensway House, Queensway, Hatfield, Herts, state that, being now at the end of their Polaroid sunglass season, total sales for the year have been about 25 per cent. higher than 1963. That has caused one or two bottle-necks with regard to repeat orders. Though they are out of stock of all models at present, they will have further supplies from early September. The models available have been brought forward from those ordered for 1965 and will carry the 1965 prices, which are slightly higher than those of 1964. All orders received up to July 31 have been dealt with. No orders are being accepted for dispatch during August.

Herbal Tranquilliser. — Passigen, a speciality of Carter Bros., Shipley, Yorks, is described as a harmless, non-habit-forming tranquilliser of purely vegetable origin for use day or night. Contents of each capsulette are a mixture of extracts of Scutellaria laterifolia, Gentiana lutea, Humulus lupulus,



Avena sativa, Valeriana officinalis, Lactuca virosa, Corydalis cava, Passiflora incarnate and Viscum album. The combination is claimed to have a soothing effect on the central nervous system without any concomitant tiredness or depression. The packs are a slide box for a one-week course and a dispensing pack of 510 capsulettes. Each dispensing pack is complete with printed dispensing cartons for twelve or more uses. The retail pack is in a counter display holding 1 doz. boxes.

A Company Changes its Policy. -Wright Layman & Umney, Ltd., 42 Southwark Street, London, S.E.1, have decided to concentrate on the market-ing of Wright's coal-tar soap, shampoo and associated products, Fix, Lak-Away and packed pharmaceuticals, and the recently acquired Roger & Gallet agency. Other sections of the company's drug business are being curtailed. To dispose of the considerable stocks held of bulk drugs, bulk tablets and sundries, they are invoicing all orders for those items at 10 per cent. below normal prices until stocks are exhausted (the company's representatives will be advised as the various items go out of stock). From August 4 no charge will be made on drug containers, and the company's representatives will issue credits for containers held by chemist customers. Existing delivery arrangements will be maintained until the first week in September. New transport arrangements after that date will give a delivery within a maximum of 10-14 days from receipt of order. The tele-phone service is being discontinued immediately. The Dabro hot-water bottle



PERFUME TESTER STAND: The Society of French Perfumers (Great Britain), Ltd., 24 Rutland Gate, London, S.W.7, have produced for use on perfumery department counters the tester stand shown. It holds the twenty - five perfumes that are currently being promoted by the Society. For the first time a booklet is available free for the consumer listing all the name, perfumes by their makes and individual descriptions.

continues to be available, and the packed goods sevice is being maintained and improved.

Safety Equipment on Show. — An international exhibition organised by the Royal Society for the Prevention of Accidents and held in London recently presented equipment available for promoting the safety and health of industrial workers. Barrier creams and hand cleansers were shown by a number of manufacturers, including ALEX-ANDER DUCKHAM & Co., LTD., LONDON, W.6, who were also demonstrating their Palmit "dispenser," which pumps cream from a 7-lb. tin by pressure on a bar with the heel of the palm of the hand; IBEX PETROLEUM Products, Ltd., who showed both their hand cleanser and their Dipspenser "dispenser"; KERODEX, LTD., London, N.1, 748 Fulham Road, London, S.W.6, who showed also their Kerocleance resin removers, adhesives, hectograph inks and a new Kerospray antipers-pirant in aerosol pack for preventing finger-marking; ROZALEX, LTD., whose range included a new liquid hand cleanser for removing oils and grease; and WALKERS (CENTURY OILS), LTD., Hanley, Stoke-on-Trent, whose specialities were the Centrex hand cleanser and Centisolve resin remover. A full range of respirators and masks was on view at the stand of MARTINDALE ELEC-TRIC Co., LTD. (protective division), 6 Empire Way, Wembley, Middlesex, including the Martindale type R/BSS respirator, which is understood to be the only dust respirator currently on the market bearing the kite mark of the British Standards Institution.

More "Mystery Shopper" Awards. -A further list of winners of the Kwells £5 "mystery shopper" offer presented by Nicholas Products, Ltd., Slough, Bucks, includes C. H. Patrick, Twyford, Berks; Hayward of Highgate, Ltd., London, N.6; L. Hayward, Ltd., London, N.10; J. W. West, Ltd., London, N.15; Barnes Pharmacy (A. F. E. Packwood, Ltd.), South Oxhey, Herts; Howe Chemist, Ltd., London, S.W.17; Mathison & Scott, Edinburgh; G. Hughes (Chemists), Ltd. Reading Berks; Smith & Roywall Reading Reading Representations of the Roywall Reading Reading Representations of the Roywall Representations of the Roywall Representation of the Royw Ltd., Reading, Berks; Smith & Bowman, Leith; G. W. Scaddan & Co., Ltd., Reading, Berks; J. M. Munro, Glasgow, E.1; A. V. Glanville, Ltd., Portsmouth, Hants; S. Girvan, Glasgow, C.1; E. C. Sleep (Chemists), Ltd., Portchester, Hants; Miss J. Rell, Inverse. Portchester, Hants; Miss J. Bell, Inverbervie, Kincardines; E. S. Breakspear, Maidenhead, Berks; F. W. M. Bennett, Arbroath, Angus; E. Lucas-Smith

Langley, Bucks; Ltd., (Pharmacy), W. J. Black, The Pharmacy, Blairgowrie, Perths; C. G. Harrison, 59 Wentworth Avenue, Slough, Bucks; Edward Jones (Chemists of Guildford), Ltd., Guildford, Surrey; Henry W. Caird & Son, Forfar, Angus, F. J. Flatman, Ltd., Hove, Sussex; Aber-

Alister Brown, Fraserburgh, Aberdeens; Morris Swerling, Ltd., Bourne-

INFORMATION FOR MANUFACTURERS

Service to Importers.—T. J. Sas & Son, Ltd., Victoria House, Vernon Place, London, W.C.1, offer a service of purchasing, on clients' behalf, equipment or goods from overseas companies (European or American) and importing them into the United Kingdom, hand-ling all Customs formalities and such items as duty exemption, etc. No charge is made for the service, as the suppliers in nearly all cases cover Messrs. Sas's costs. A leaflet giving details of the service is available.

Chemicals List Supplement.—A supplement to the 1963 edition of "British Chemicals and Their Manufacturers is being circulated by the Association of British Chemical Manufacturers' 86 Strand, London, W.C.2. The supplement provides full details of the changes that have taken place since 1963, and ensures that users of the directory have up-to-date information regarding manufacturers of chemicals in the United Kingdom. As is with the directory, the supplement is available gratis to all firms and persons interested in the purchase of chemicals and allied products.

Advice Service to Small Firms. — Under the title Associated Business Advisers, Ltd., the Adam Johnstone Group of Companies, 14 Dover Street, London, W.1, have set up an association of over 600 active, semi-retired and early retired businessmen (specialists in their own fields) willing to make their skill, knowledge and experience available to industry on an ad hoc basis at a reasonable cost. They aim not to compete with existing consultants but rather to complement them. Services offered include attending board or management committee meetings at which special problems are discussed; preparing reports and surveys on management and industrial activity; carrying out special investigations; exercising executive functions temporarily during a reorganisation or absence of an executive; and selecting senior and specialist executives.

mouth, Hants; and P. M. H. Cranna, Kintore, Aberdeens.

Christmas Showrooms

THE following have been notified:— COTY (ENGLAND), LTD. Grand Central Hotel, BELFAST, August 17-20, Queen's Hotel, WESTCLIFF-ON-SEA, August 17-20, Royal Hotel, BRISTOL, August 17-21, Sun Hotel, CHATHAM, August 18-20, Great Western Hotel, READING, August 18-20. County and

Station Hotel, CARLISLE, August 19-20.
SHULTON (GREAT BRITAIN), LTD. Queen's Hotel,
WESTCLIFF-ON-SEA, August 17-21.

GROSSMITH & SON, LTD. Polygon Hotel, SOUTHAMPTON, August 17-21. Sun Hotel,

CHATHAM, August 17-21.

JACKEL & Co., LTD. Grand Central Hotel, BEL-FAST, August 17–21. County and Station Hotel, CARLISLE, August 19–20.

Bonus Offers

CHESEBROUGH-PONDS, LTD., Victoria Road, London, N.W.10. Vaseline shampoo sachets (cream, medicated and liquid). Twelve invoiced as eleven. Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham. Carnation corn caps. 153 packets invoiced as 144; 324 packets invoiced as 288.

Storage and Dispatch Service. -Rapid Packaging and Dispatch Co., Ltd., 8 The Green, Richmond, Surrey, offer manufacturers their services in the dry storage, packing and dispatch of goods. The company's administrative offices and warehouse are just off the Chertsey By-pass, and within minutes of Richmond station. The warehouse is controlled at a temperature of 70°-75°F. throughout the year, has loading and unloading bays for speedy in and out transmission of goods, and is equipped with mechanical handling equipment. The service covers breaking of bulk; sorting and classifying; simple and composite packing, making up orders from a client's stock and dispatching them to wholesale, retail or industrial outlets, etc., as required.

Turkey. — Southern Agents in Agents in Turkey. — Southern Chemical Plant Co., Ltd., 9 Union Court, Old Broad Street, London, E.C.2, have entered into an agreement with Muzaffer K. Gursel, 3 Arslan Han, Galata, Istanbul, Turkey, to act as the company's agents for the distribution of chemical process and chemical engineering know-how in Turkey.

EXPANSION PROJECTS

BRITISH Oxygen Chemicals, Ltd., are establishing a tall oil distillation plant in the United Kingdom. The plant, the first of its kind in the country, will provide tall oil rosin and tall oil fatty acids which, up to now, have had to be imported.

A THIRD plant for the production of phthalic anhydride is being built by Howards of Ilford. Ltd., and is expected to be in production by the end of 1965. Sited at Stallingborough, Lines, it is the first United Kingdom manufacturing venture of the Howards subsidiary outside the London area.

INFORMATION WANTED

The Editor would appreciate information about: Gloria hair bands.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A "Doorstep" Attitude?

SIR,—I resent the "doorstep" attitude of your correspondent Mr. A. C. Curd (C. & D., August 8, p. 126). Having purchased a very old-established pharmacy, recently moved to a busier site, I found that N.H.S. dispensing fell sharply in numbers owing to the imposition of the one-shilling charge, and later the two-shilling charge reducing by 50 per cent. the number of prescriptions handled. Redevelopment of the area resulted in three local surgeries moving farther away, and in each case the surgery was resited in a new block of shops, and a chemist opened in each block near to the new surgery. Instead of being the nearest pharmacy to four surgeries, I now have only one nearby. To be sneered at as an "opportunist" under those circumstances is not helpful. The blame lies with the local town-planners, who decided that one doctor-one pharmacy in scattered spots was to the public advantage. Some planning authorities build shops and allocate one as a "pharmacy" regardless of established interests.

"CONTRACTED OUT"

Stockings in Pharmacies

SIR,—It is a sorry state that Mr. Jardine and his Coventry colleagues (C. & D., August 8, p. 125) should be either so greedy or so financially strained that they must resort to running "well stocked stores a là Boots." Like many other pharmacists I conduct my pharmacy in a professional manner and do not have to resort to store trading. The sooner Messrs. Jardine "& Co." disappear from pharmaceutical life and sell boots with their stockings, "the longer will the rest of us last out."

D. J. ABRAHAMSON, Salford, 5

SIR,—I have never seen such an insulting letter as that from Mr. H. D. Jardine in reply to Mr. N. H. Ratcliffe, who thinks that nylon stockings should not be sold in a pharmacy. There are many, including myself, who think likewise, and who run their businesses in such an efficient and profitable manner, that they have neither the need or desire to dabble in cheap drapery lines to make a living.

J. H. KEENAN, Shaftesbury, Dorset

A Permanent Emulsion?

SIR,—Mr. Talvan Rees' contention that oil and water are a tame mixture when emulsified belies the fact that no emulsion is permanent. Surely, Mr. Rees and other contributors should realise that the only ones who can judge what is best for Unichem—and Unichemists— are the Unichem board of directors. The Unichem organisation has been accused in your columns of being autocratic. Nothing could be

further from the truth. Were those people who have been denied Unichem membership to read their agreement with Unichem if they were working in a Unichem pharmacy they would agree that the organisation has been designed specifically for the pharmacist and not for the speculators. Surely they cannot quarrel with that. The fact that so many pharmacists who run businesses that are not controlled by qualified capital would like to join Unichem is flattery indeed. It speaks for itself. I, for one, am still waiting to hear from Mr. Rees what Ucal have to offer to Unichemists?

EDGAR WILLIAMS,

Chatham Kent

Practices That Erode Integrity

SIR,—May I, through your columns, voice a strong protest against two salespromotion practices that seem to be on the increase. The first is the "mystery customer" who gives a prize of some sort if the assistant "recommends" the right" product. The second is the product bearing a stamp or coupon which is supposed to be saved by the assistant and redeemed for cash by the traveller of the firm concerned. Both these practices cut right through our professional integrity. There can be only one criterion by which a product (any product) is recommended in a pharmacy, and that is its quality and suitability in our opinion for the customer's needs. That the product is a "good sale," or bears a prize coupon, or even that it is "chemists only" must only be a secondary consideration. The public have learned to trust our opinions on most matters concerning medicines—yes, and on cosmetics and all the other products we sell. Once we lose that trust we are lost and even when once we allow our assistants to be coerced by the "gimmick mer-chants" I think we are half lost. I recognise that in many cases the products affected are ones that we would conscienciously recommend, but that is not the point. If our assistants recommend any product at all, the instruction to do so must come from our-selves as pharmacists, not from any manufacturer, no matter who he is or how good his product.

CHRISTOPHER H. SHERRIFF, Tonbridge, Kent

Turning on the Heat

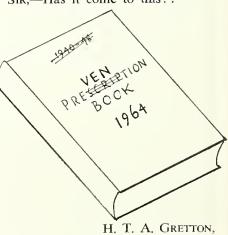
SIR.—During the R.P.M. controversy, one of the enemy (Angus Maude, if my memory serves me right) spoke of the "'powerful' chemists' lobby." Nobody in his right mind could imagine it to be as powerful as the big-business lobby or the supermarket lobby; but it was nice to know that a chemists' lobby existed, and that somebody up there cared for us, even if there did not exist a "hot-line" between Bloomsbury Square and Edward Heath. One could picture the Pharmaceutical Society bombarding the back benchers with the facts of life and, at the same time,

offering information, advice and argument to any member of the Government who had even the remotest connection with or interest in the pharmaceutical industry and retail trade. But we were wrong, wrong, wrong. The "powerful chemists' lobby" does not exist and never did. It can only have been a figment of Mr. Maude's imagination, or the Minister of Health would not still believe (see C. & D., July 25, p. 75) that chemists are reconciled to the sale of medicines by any Tom, Dick or Harry, and that such promiscuous distribution is in the public interest. Sir Rowland Hill introduced the "penny black" in vain, so far as the Pharma-ceutical Society is concerned, for it would appear that the Secretary does not write to Mr. Barber. How does the advertisement go —? "Somebody, somewhere is waiting for a letter from you "-Well, fellow retail-pharmacists, don't let us keep Mr. Anthony Barber waiting!

R. HUTCHINSON, London, S.E.7

"Rebirth" of a Book

Sir,—Has it come to this?:-



A Study of Changes of Occupation

Arnold, Nottingham

SIR,—Dr. T. D. Whittet is to be congratulated on the painstaking care with which he has assembled his facts under the heading "Apothecary to Pharmacist." His articles show in detail how the pure concept of pharmacy as an independent profession ranking with law and medicine—so well understood on the Continent—has become submerged in Britain. For at no time has it been possible for an individual, or for a body of persons, to follow two professions with equal fidelity. Those apothecaries, in taking up medicine, were bound to lose interest in, and respect for, their earlier profession of pharmacy. The apothecary who works to the order of a physician on behalf of a patient is in a consciously different position from the person who combines both functions. Then, too, those druggists (chemists and druggists) who were taking up the practice of pharmacy as it was slowly relinquished by the apothecaries, were themselves subject to two allegiances;

their earlier business training conflict-ing with their newly acquired practice of pharmacy. So, down the years, there has been a loss of understanding of, and respect for, the position of undertaking pharmaceutical those It has been reflected in the work struggle for adequate salaries for those engaged in hospital work, and for sufficient income from National Health Service work for the contractor. That situation the Continental pharmacist has never had to contend with; but then the Continental pharmacist has never attempted to take up medicine. It is possible that the decision secured by William Rose in 1703 had as much effect on the subsequent practice of pharmacy as had a later decision, reached during the eighties of last century, to the effect that a limited liability company can be a person within the meaning of the Act. I doubt if Dr. Whittet is correct in subtitling his work "A study in changes of title," for what it has done is to show in great detail the effects of a change of occupation on two sets of persons; and upon that practice of pharmacy that they still, to an extent, share. Our task today, therefore, is to disentangle phar-macy from all these encumbrances, and to re-erect it as a liberal profession in its own right.

J. T. MARRIOTT

SIR,—Further to Dr. T. D. Whittet's article, fourth in the series "From Apothecary to Pharmacist," one should add that there is in Glasgow an oldestablished firm of wholesale chemists called the New Apothecaries Co., Ltd. G. A. Schmeidler, Ph.D., B.Sc., London, W.C.1

Widened Distribution

 I should like to congratulate Mr. Hayhurst on his excellent and revealing letter (C. & D., August 1, p. 106). So Beecham Proprietary Medicines are going all out to persuade grocers to stock their lines! Now that we pharmacists know the extent of that company's policy of "wide distribu-tion" we should have no hesitation in determining our attitude towards dis-playing its products. They will certainly get a back seat in my pharmacy, and Mr. Hayhurst's letter has been cut out and pasted up in a prominent position as a constant reminder to my assistants of the Beecham policy and of our policy towards their goods. On another page of the same issue of your journal appears an illustration of a counter display unit which Beechams will doubtless try to put into every pharmacy. I am wondering how many of us will be foolish enough to give up valuable counter-space to this unit when there are so many "chemists-only" lines worthy of display. Other big firms are apparently wooing the grocery trade and those who stock Johnson & Johnson's dressings will be interested to know that Bandaids attached to a free packet of sweets called "Spangles" are being featured in many shops. I saw a display of them in one of the well-known "dairy" shops today. It seems to me that the only hope for retail pharmacy in this country is the restriction of all medicinals to chemists. As a first step, the appointment by the Pharmaceutical Society of a public relations officer to "soften up" the public and Members of Parliament is an urgent necessity.

J. J. BUCKLEY, London, S.E.24

N.H.S. Remuneration

SIR,-Judging by letters in the pharmaceutical Press, the recent settlement emerges as a raw deal for the small contractor. The previous adjustment by Mr. Enoch Powell was labelled a raw deal for the medium and large contractors. In THE CHEMIST AND DRUGGIST the case has been put for both. No doubt both have a grievance. Perhaps we all have, for it was stated that the Minister's offer was accepted with reluctance. However, in my view, all those aspects of the matter pale into insignificance compared with the fact that many small pharmacies are literally facing crisis and catastrophe. I believe that the only pharmacies that are "safe" are those which are either

(a) in a location in which a pharmacy is definitely needed by an adequate population, who find it difficult or inconvenient to reach the

supermarket centres, or

(b) situated right in the melée

two stools, and the prospect is grim indeed. The obvious remedy in such cases, if one wishes to continue in practice, is a removal, lock, stock and barrel (taking staff too, if possible), to a new location that fits category "a" above. That would solve one Many of us are caught between the proprietor's problem and also provide an improved service to the public. But the acquisition of premises is difficult and expensive. Could the scope of the N.P.U. Business Purchase Fund be enlarged, and a helping hand be extended by the more affluent brethere. tended by the more affluent brethren? It could be emphasised that no money would be advanced to take a man among the "giants," nor to prolong the agony of a dying pharmacy in situ.

Or is all this a case of crying for the moon? If anything is going to be done, it should be done now, for about 120 pharmacies a year are being sunk without trace. Of course, so far as our organisations and our affluent brethren are concerned, perhaps the the easier way-certainly way of ruthless logic—is "they're going now, let 'em go." But the easy way is not necessarily the right way.

INDEP

Name and Address, Please

SIR,—I have received from a retail pharmacist in Ballymena, co. Antrim, Northern Ireland, a copy of the doublepage advertisement that appeared in your journal on August 8, announcing the introduction of Halaspray. Unfortunately the gentleman concerned did not include his name and address. I should be grateful if you would allow me, through your columns, to ask him to send them to me so that I may let him have full details.

J. E. Teague, manager, Boehringer Ingelheim, LTD., Isleworth House, Great West Road, Isleworth, Middlesex

But There are Objectors

SIR, - "Lord Denham, putting the views of the Government, said it . . . knew of no members of the [Pharmaceutical] Society who objected to being compelled to become members." I quote from p. 30 and 31 of your issue dated July 11. His Lordship and the Government obviously do not read the pharmaceutical Press, or they would know that there is a body of members who do indeed object to being forced to belong to a Society that does nothing whatever for them—and charges them a fantastic, and ever-increasing, fee for the privilege. At the time of the "£9 rebellion" in 1963 it was made abundantly clear that some members were of the opinion that registration and membership of the Society should be separated. We qualify by examination, after due and proper training, and it is monstrous that, after that, our right to practise should depend on our paying a fee to belong to the Pharmaceutical Society, or to any other body for that matter. At one period in English history, when the Test Acts were in force, no man could obtain a public appointment unless he partook of the sacraments of the Church of England. Public opinion later saw the iniquity of that, and the Acts were repealed. Pharmacists are in a similar position today; but whereas membership of the Church of England was free, they are obliged to belong to the Society at their own expense; and the only reason given for continuing this injustice is that in 1930 a Committee said it would be a good thing, and that the provision was later incorporated into the Acts of 1933 and 1954. It might not be so bad, even so, if members received value for their money. But what do they get? What has the Pharmaceutical Society ever done for the benefit of its members?

ARTHUR G. WELLS, Canterbury, Kent

P.S.—I see from a newspaper advertisement that Boots, Ltd., are following the lead of Woolworths and selling cutprice radio sets. How much lower can we sink? And who is going to be surprised at the low esteem in which pharmacy is held by the Ministry of Health when this sort of thing can happen, and our "governing body" does nothing about it?

BEFRIENDING THE GROCER

Some warnings from a Kent pharmacist

SIR,—May I be granted space in your columns, first to take a brief swipe at Mr. H. D. Jardine (C. & D., August 8, p. 125) and, secondly, add my voice to those of Messrs. Hayhurst and Thornton (C. & D., August 1, p. 106 and August 8, p. 126). Mr.

Jardine, in a spate of malevolent, mischievous nonsense, describes the letter from Mr. N. H. Radcliffe as "utter piffle." He fails, however, to explain why he ever bothered to qualify as a pharmacist—a qualification to which he would appear to be most unsuited.

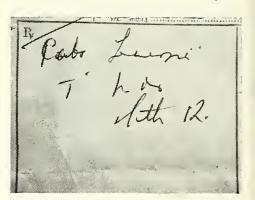
He also appears to overlook the fact that his qualification does not necessitate his continuing in the practice of pharmacy. If only Mr. Jardine (or, to copy his style, Jardine & Co.) had the courage of his convictions, and would quit the profession in favour of the rough-and-tumble of the junk shop, not only would he be happier but the future of pharmacy would be much more hopeful. On the other hand, Messrs. Hayhurst and Thornton are to be congratulated—and supported—in their efforts to direct the attention of pharmacists to the obvious dangers that must soon overtake us if we continue in our present irresponsible ways. At Branch Representatives' meetings of both the Society and the National Pharmaceutical Union in recent years I have attempted to spotlight these very real dangers (with, I regret to say, little effect). Even so, I eagerly support this most recent effort. It really is fantastic to see how pharmacists, with the simple eagerness of slightly backward children, seem to fall over themselves to support the manufacturers who invite them to dig their own graves. For example, study the list of twenty-one of our colleagues who have accepted "100 pieces of who have accepted "100 pieces of silver" for actively promoting a product of Nicholas Products, Ltd. (C, & D., August 1, p. 104). Consider next the current advertisement by Messrs. Beecham for their range of "tonics," with its bold heading "Exclusive To You" (it refers to the counter unit, not the products) but advertisers are no fools and they know vertisers are no fools and they know their chemists-they know that thousands of us will gladly accept and use this unit for God knows what unlikely reason. Bully for you, Mr. Grocer: we're working for you! And look! Here's Vick International, Ltd., again -bouncing up, lively as ever, in spite of last year's disgraceful exhibition with Formula 44. A most generous offer this time, for all we have to do is create a window display of Vick cough and cold remedies, thus implying recommendation and increasing our sales of these low-profit lines, while at the same time doing a tremendous favour for our unqualified competitors, who will certainly benefit from our displays. Few chemists will deny the truth of this, but nevertheless the photographs will flow to Vick International in their thousands. Meannational in their thousands. I refer while, what of our friends? now to the manufacturer and wholesaler who does not supply unqualified outlets. Well, to start with, here is Unichem, Ltd., offering a special additional discount on Alka-Seltzer, requiring only a guaranteed display of this sell-anywhere aspirin for the next three months. Order up the Alka-Seltzer, Mr. Grocer! I've been paid £1 for taking in £20 worth of the stuff to display for your benefit. On the purely professional side, how are your prescriptions for "the pill"? Receiving many for Conovid-E? It's certain that you do not see as much of the manufacturer's representative as formerly—he is too busy selling direct to the doctor (at much bigger discounts than you ever had, and in direct defiance of the A.B.P.I. agreement). Of course, he has to compete

with his colleagues from the Organon and Schering concerns; even Parke, Davis admit they have been forced into the rat-race; only the British Drug Houses, Ltd., appear to be continuing an honourable course, And, of course, if you cannot sell direct to the doctor, you can always follow the example of the Chelsea Drug & Chemical Co. and insult the pharmacist. Whichever way you look at it, fellow pharmacists, you are holding the dirty end of the stick. Is it any consolation to know that you grasped it willingly? Or to know that, by your continuing eagerness to be trampled on, you are openly inviting your few remaining loyal friends to desert you? Small wonder that the Minister of Health stated recently that he understood that the Pharmaceutical Society itself was not pressing for complete monopoly. Messrs. Hayhurst and Thornton ask for unity to combat our enemies. I heartily second that. But I have little faith in ever seeing I heartily second that. it come about. Even though the solution is obvious, easy and entirely prac-tical (and I shall be happy to enlarge

on this, on request). A little thought, my friends; a little courage; and away with the faint-hearts who talk about Restrictive Practices Act and Monopolies Commission. W. A. BEANLAND, New Romney, Kent

PRESCRIPTION POSER

THE following prescription sent in by a West Country pharmacist understandably caused him some difficulty:—



MANUFACTURERS' ACTIVITIES



SILVER STAR AWARD FOR PACK: One of the thirty-three silver stars awarded in the 1964 Starpacks competition went to the Micralax pack shown. Surface design, which contributes towards the awarding of a prize, was by John Quirk of the design unit of the manufacturers, Smith Kline & French Laboratories, Ltd., and the package was developed by the company's purchasing department in conjunction with Rondopack (Gt. Britain, Ltd.), makers of the carton and trays. Micralax is a 5-mil micro-enema.

Twenty-fifth Anniversary.—At a party held at Wembley, recently, to celebrate the silver jubilee of Ward, Blenkinsop & Co., Ltd., the chairman (Mr. E. B. Ward), was presented with a bound book containing the names and signatures of every individual employed by the group of companies at home and abroad. The compilation of the list was the task of Mr. K. T. Chapman (technical manager), who has been with the company for twenty-five years. He was among those, including the director in charge of sales (Mr. J. S. Hill), who were presented with gold watches at this function. The twenty-five years of progress is commemorated in a new illustrated catalogue. In addition to a comprehensive list of their products, with their uses and specifications, the catalogue contains many photographs in colour and in black and white, showing their modern chemical plant,

tablet making and packing, laboratories and research work. An interesting feature of the book is the inclusion of more than fifty portraits of members of staff at home and abroad. As most of the catalogues are for distribution overseas, the photographs are intended to provide a strong personal link between the company and its customers.

Pharmacist Visitor from Hong Kong.—Mr. W. Voce, M.P.S. (manager of the pharmaceutical department, A. S. Watson & Co., Ltd., Hong Kong agents of Riker Laboratories, Morley Street, Loughborough, Leics), is at present in Britain on a period of home leave. He is taking the opportunity of visiting business contacts of his company in the United Kingdom and he is seen here



with Mr. F. R. Cresswell (international sales manager of the company) examining the latest machinery installed at the Loughborough factory for packaging Riker Medihalers.



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TELEPHONE: CENTRAL 6565

Where Pharmacists Do Most Business

An approximate pattern of retail pharmacy distribution and trading in Great Britain may be drawn from the Census of Distribution taken for 1961, the fourteenth and final report on which was published recently (H.M. Stationery Office, price 4s. 6d.).

The figures reveal, among other things, that for chemists' shops (and shops dealing only in photographic goods) one of the most profitable areas for business in 1961, if profitability is measured by sales or turnover per person employed, was the Greater London area. In that area the average annual turnover per person employed in chemists' shops was £4,100 against an average for Great Britain of £3,760, the number of pharmacies or photographic shops being one per 2,400 head of population against an average of 2,800. Of course, overhead expenses in the London area are greater than in other areas and so far as net profits are concerned the average pharmacy in the Metropolis could, on balance, be no more profitable than in the five areas with the next best productivity rate—£3,800—namely East and West Ridings of Yorkshire, Eastern England, Southern England, the Midlands and Wales. How did the five differ? In the Midland region 1,406 chemists' shops employed a total of 7,533 persons, in Wales (including Monmouthshire) 1,052 shops employed 4,848, in the Eastern region of England 1,077 employed 6,123, and in the Ridings 1,490 shops employed 6,901. The ratio of shops to population varied from one shop for every 2,500 people in Wales, to one to every 3,300 in the Midland area, one to every 3,400 in the Eastern region and one to every 2,800 in the Ridings.

Areas with a below sales average were the North Midlands (£3,650); and North-west and South-west England (each £3,600). Scotland's 1,844 shops, employing 8,724, showed a turnover-per-person rate of £3,400, the lowest for any region, though the country had only an average number of shops for 1,000 of population. While the figures may not be conclusive, they would seem to emphasise the point, made by contractors to the National Health Service north of the border, that Scotland requires special treatment in the way of remuneration for N.H.S. dispensing.

From one of the earlier reports in the series (see C. & D., January 25, p. 74) it seems that there were in 1961 13,074 dispensing chemists with a total turnover of £288.4 millions. That would leave 5,318 photographic shops, with a total turnover of £59 millions. The average turnover per pharmacy works out at £22,000; against the photographic shop's, £11,000.

Nibbling At It

PLUGGING gaps in the thicket of forensic pharmacy has been an almost continuous preoccupation during the last few sessions of Parliament. Often the gaps appeared to be less in the practice of pharmacy than in some ephemeral fringe, yet the industry has had to accept additional restrictions in order that the misuse of drugs may be circumvented.

The Drugs (Prevention of Misuse) Act, 1964, was one of forty-two Acts to receive Royal Assent on July 31, and copies are now available (see p. 140). When the Bill was first introduced (see C. & D., April 4, p. 341) we argued that the industry should not be asked to cope with more restrictions by such piecemeal legislation. We continue to think it is time to call a halt to such procedures. There has now been time enough for thorough digestion of the report by the Interdepartmental Committee on the Control of Medicines not only by the Ministry of Health Department but by all other departments, and the proper step to take is to produce draft proposals that are all-embracing in their control and effectiveness. Looking at the matter realistically, we recognise that little advance in that sphere is to be expected until after the General Election. Nevertheless, we think it is appropriate that the industry, in all its sections, should make it known "through official channels" that the piece-meal approach is no longer acceptable. Mr. Anthony Barber (Minister of Health) indicated in the House of Commons on July 30 that, in consultation with the Home Secretary and the Secretary of State for Scotland, the Interdepartmental Committee on Drug Addiction had been reconvened, indicating that fringe activities were again being encouraged. We are aware that legislation must be amended from time to time in order to keep abreast of current developments, but the situation at present is that more amendments of the legislation concerning drugs and medicines are no longer appropriate in the absence of comprehensive revision of the law on the subject. Unless those engaged in pharmacy and the pharmaceutical industry press for positive action along those lines without further procrastination, it may well be that the legislation will become so complicated as to be unworkable.

100 YEARS AGO

A PLEA FOR THE HANDMAIDEN

From the C. & D., August 15, 1864

WE often hear Pharmacy represented as the handmaid of medicine, and, acting on this idea, some of our titled colleagues of the medical profession, par excellence, would exclude the pharmaceutist from the great temple of medicine, or if they would vouchsafe him an entrance at all, would shut him out in the servants' hall or the scullery. On what grounds this assumed superiority of the doctors is founded, we may, perhaps, profitably inquire; if we go to the past we shall find that the pharmaceutists of to-day, equally with the physicians, represent the ancient votaries of Æsculapius. If it be true, as we are told, that Hippocrates and Galen, with not a few of their eminent disciples and followers, dispensed their own compounds, many of them keeping open shops, while all were perhaps more concerned with Materia Medica and Pharmacy than with either Anatomy, Physiology, Pathology, or Surgery, albeit this latter pertained chiefly to the barber, who still represents by his trade insignia the ancient blood-letting propensities of the craft—may we not claim at least as ancient and honourable origin as any branch of the healing art? Measured by the standard of the present, we . . . do produce something wherewith to benefit mankind.

A History of the BRITISH PHAR-MACEUTICAL CONFERENCE

By E. H. SHIELDS

8: THE YEARS 1892-95

R. E. C. C. Stanford, Dalmuir, having accepted office as president of the Conference for 1892, engaged in a little mild propaganda on behalf of a reference work which he did not know would be acquired, many years later, by the Pharmaceutical Society.

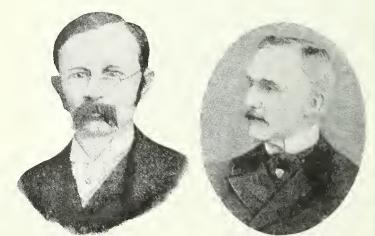
He said that no physician or pharmacist could afford to order a suit of clothes without a pocket specially made to contain the last edition of Martindale's Extra Pharmacopæia. Reviewing the astonishing material progress made during the life of the Conference, Mr. Stanford found the "present time the oldest and the best." They were celebrating the centenary of the gas industry, but gas would be of little use without matches, and those were invented in 1827 by a chemist and druggist of Stockton, John Walker, who sold them in boxes of fifty for a shilling. Supporting one of his own earliest pupils, Mr. Charles Umney, in advocating the abolition of the medicine-stamp duty, Mr. Stanford quoted a current newspaper advertisement—"Wanted; a gentleman to undertake the sale of a patent medicine; the advertiser guarantees it will be profitable to the undertaker." In 1890 there were 663 fatal cases of poisoning, of which 149 were from opium in various forms—there was a real need for more adequate control.

Of the twenty-seven papers that followed, the most interesting and provocative were on the subjects of tea and chloroform. On the question of caffeine extraction Dr. Paul suggested that what was new in Mr. A. H. Allen's paper was not true and what was true was not new. That statement seemed calculated to raise a storm in a tea-cup, but the two disputants eventually compromised to the extent of 90 per cent. "Tests for the purity of chloroform" brought forth some pungent comments from local stalwarts, including Dr. Inglis Clark, who pointed out that "the more you worked with chloroform to make it pure the more risk you ran of making it impure." Furthermore, strange things could happen to that sensitive substance after it left the laboratory; he himself had seen a bottle in the dispensary of a London doctor in the full glare of the mid-day sun.

A Kind of Divorce

Mr. Payne, Belfast, thought it high time that the old question of Conference and British Association meeting-places was finally resolved. He formally moved "that in future the Conference do not meet in the same town or at the same time as the British Association." Mr. Hodgkin suggested that it would be more tactful to include the words "of necessity" after the "not," and the resolution was eventually passed in that form. Having asserted its complete independence, the Conference accepted an invitation from Nottingham, the town already selected by the British Association for 1893, albeit at a slightly different time. Socially the Edinburgh Conference meeting was very successful. The reception was attended by about 400 members and friends. There were pleasant outings for the ladies and a final, memorable day in the wilds of Perthshire.

Mr. Octavius Corder succeeded Mr. Stanford as president, with Mr. John Moss replacing Mr. R. H. Davies as treasurer, and Mr. J. C. Nightingale returning to his former post as assistant secretary. The new president, who was



Mr. E. H. Farr

Mr. G. Claridge Druce



Mr. R. Wright

celebrating his jubilee in pharmacy, devoted his address to a review of some old herbals and related botanical lore, reflecting a favourite pursuit from his youth onwards. His apprentice-master, a Friend, had chided him for over-indulgence therein—"Depend upon it, Octavius, thy love of plants will never lead thee to any good." Actually it had led him to a pleasant garden in Norwich and the board of examiners at Bloomsbury Square and we are told that many specimens found their way from the one to the other. A paper by Dr. Frank Clowes, the first professor of chemistry at the twelve-year-old Nottingham University College, described how his work had developed from that of the local chemists' association which "practically corresponded to one of the ancient trade guilds." Before coming to Nottingham Dr. Clowes had been in Germany, and was able to contrast technical education in the two countries. Messrs. Farr and Wright summarised their recent work on B.P. alkaloidal tinctures and made suggestions for their standardisation, whilst Mr. Wright himself read papers on Easton's syrup and collodium belladonnae from the Conference Formulary. He described the latter as the most unsatisfactory preparation in the Formulary and suggested that they should revert to an extract made from bellodonna leaves instead of the root. Mr. W. A. H. Taylor produced data collected over several years tending towards a similar conclusion but differing in detail. The Conference version of Easton's syrup was "too much acid and containing too much sugar"; Mr. Wright's modifications were eventually



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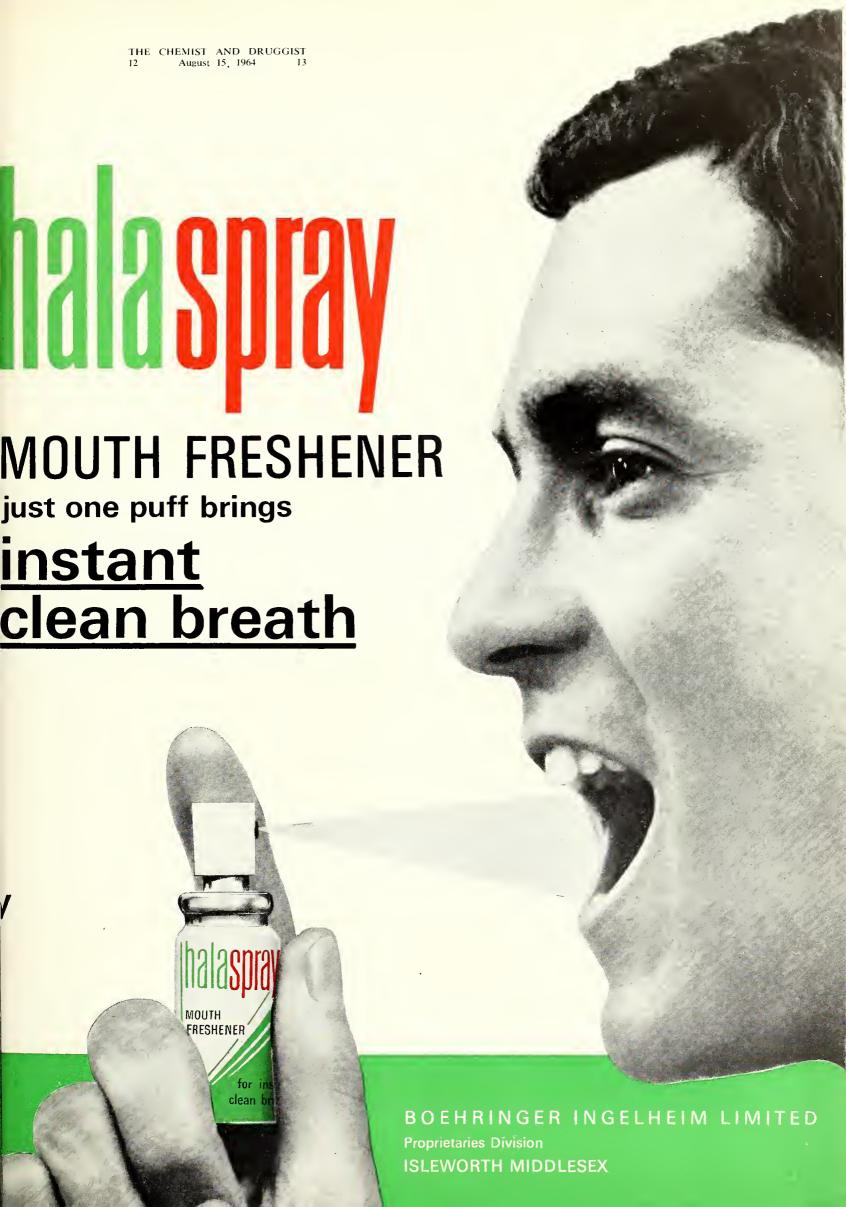
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incorporated in B.P., 1898. Promising newcomers included Mr. E. J. Parry, who had found eight out of twelve specimens of beeswax to be adulterated, and Mr. Edmund White, who contributed a paper on thyroid. The last is of special interest as a picture of a young and vigorous mind reaching out towards the unknown. "The pharmacy of the subject is necessarily rather empirical. Nevertheless we easily obtain preparations which meet the requirements of practical medicine. Refinements will follow when our knowledge is more complete." Some members were frankly antipathetic to the whole idea. Dr. Symes thought it was a reversion to an ancient style of pharmacy, which could well be left in limbo; the president obviously preferred to draw his materia medica from the vegetable kingdom but Mr. Gerrard hailed it as the biggest advance since the days of pepsin and pancreatin. Here was "something attractive, interesting and mysterious" calling for a certain amount of exploration.

Entertainment at Nottingham must have been rather lavish, for Mr. G. C. Druce, inviting the Conference to Oxford for 1894, felt it necessary to add that his brethren there "were fewer and poorer than in many other places" but there was enough of interest in the town and university to obviate any necessity for long excursions. The invitation was accepted and it was left to the Executive to arrange a convenient date. Mr. N. H. Martin, Newcastle-on-Tyne, was elected president.

There was indeed abundant interest for Conference visitors when they met at the end of July. They were received by Canon Ince in the Hall of Christ Church and the business meetings were held in Balliol College, with the Master (Dr. Edward Caird), the mayor of Oxford and Sir Henry Acland giving a cordial welcome. An afternoon garden party in the grounds of New College and a full-day excursion by house-boats to Abingdon enlivened the proceedings. The Executive reported with regret the passing of a former president, Professor Bentley, the eminent botanist, Mr. W. D. Savage, Brighton, and Mr. R. H. Davies, a former treasurer. The latter's successor, Mr. J. Moss, put the best face he could on a balance sheet which did little more than balance, and he pleaded for each member to act as an apostle and bring in new disciples. Receipts from subscriptions continued to droop, the total for the current year being £100 less than in 1889.

A "Long Look" at Medicine and Pharmacy

In his presidential address Mr. Martin took a long look at medicine and pharmacy and was critical of much that he saw. Pharmacists should have had no dealings whatever with the "advertising quacks" who were so largely responsible for the parlous state of both professions. The use of brand names was making matters worse than ever, but they would "have met with poor success if medical men and the medical journals had been true to themselves and to their own teaching." It would be foolish to deny the great advances in physiology, pathology and chemistry but "exorbitant claims on their behalf were fraught with no little danger to the art and practice of medicine." Presumably they tended to make the doctor too much of a theorist and too little a practitioner. In pharmacy they were attempting the impossible—seeking to grasp commercial advantages whilst still desiring the rewards of professional service. "The essence of trade is that it is capable of indefinite expansion; there is no limit to the extent to which a tradesman may sell his goods." The essentials of a profession were special education, qualification following examination, and service rendered personally and directly; "it cannot be multiplied indefinitely through unqualified persons." In 1868 English people had been willing to accord to pharmacy the opportunities of a profession, but in 1894 "they are almost compelled, by the conduct of those who practise it, to come to the decision that it is nothing but a trade after all." Doctors' dispensing and chemists' precribing still excited passions on both sides, but the better qualified each might become, the greater would be the mutual respect.

The papers which followed were eminently professional. Mr. Martindale reported a new issue of the "Unofficial Formulary" with four new preparations and several alterations and corrections. Messrs. Farr and Wright presented notes on the stability of the alkaloidal tinctures and methods of determining their strength. The paper represented an cnormous amount of work on the part of the authors and called for close attention from members of the audience. When the president pleaded for a large diagram as a visual aid Mr. Wright could not refrain from pointing out that those he had produced with considerable effort for a previous occasion had received no attention; perhaps it was a case of absence making the heart grow fonder. On the whole gravimetric methods gave the most reliable results, provided you knew exactly what you were weighing; resinous matter must not be allowed to masquerade as alkaloid. Mr. Arthur Turner, L.D.S., discussed the properties desirable in a typical dentifrice, which then meant tooth powder, and found the ideal base in prepared chalk; it was much safer than precipitated chalk; a little extra alkalinity in the form of sodium bicarbonate and a mild antiseptic such as oil of cinnamon sufficed for general use. He condemned harsh abrasives, strong germicides and astringents but welcomed the new idea in packaging—"wide-mouthed bottles with sprinklers." Mr. F. C. J. Bird read a series of innocentlooking laboratory notes on miscellaneous subjects which led to a game, described as shuttlecock and battledore, by one of the contestants. The syrup hypophosph. co. of the Conference Formulary was liable to develop traces of sulphuretted hydrogen, and there were various theories as to its cause. Some blamed the sugar, others the agents used in bleaching sugar, others again the hypophosphites of commerce. Mr. Tyrer spoke feelingly of the trials of the chemical manufacturer, the differences between theory and practice, and the difficulties of removing the last traces of sulphates. He added a final warning—beware of the sugar! Unfortunately no sugar manufacturer was present to join in the game.

As a pleasant interlude Mr. G. C. Druce described the geology and botany of Oxford and its neighbourhood to such purpose that the president wished for an equally learned and efficient local guide for each and every Conference centre. Another contribution much at home in the august Balliol surroundings was on the nomenclature of official remedies. Mr. Joseph Ince hoped that the compilers of the next B.P. would be careful with their Latin. Some titles would unfortunately have to be left in their sad, barbarous state of indeclinability but Mr. Ince pleaded for order and seemliness in the new additions. Mr. Martindale saw no vice in indeclinable nouns and no confusion in the two forms of glycerine and glycerin. Mr. Atkins was strongly against "dog Latin" and both he and the president felt sure that pharmacists could trust the classical acumen of the author of the "Latin Grammar of Pharmacy." Thus encouraged, Mr. Ince gave Mr. Martindale a little lecture on the advantages of clearly defined rules and added that they should be at least as critical of the B.P. compilers as they were of candidates for the Minor examination.

In an effort to remove any lingering doubts on the British Association question, the president explained the relative positions in some detail. When the Association planned to visit a town it called for a guarantee fund of £2,000 and suitable accommodation for 1,500 to 2,500 people for ten days. In comparison the Conference was a gathering of friends, and any expense entailed could be a mere bagatelle. Small communities should not deny themselves the pleasure to be obtained from such a visit. Bournemouth had already made up its mind for 1895 and, after some light-hearted comparisons between its newness and the antiquity of their present surroundings, the invitation voiced by Messrs. Bridge and Toone was accepted.

Efforts to Increase Membership

Mr. Martin remained in office for a second term, and during the period a further attempt was made to improve

the membership figures. In May 1895 each member received a letter urging greater individual effort in the cause, and the result was eighty-seven new nominations, a number of encouraging notes of appreciation of the Year-book, and offers of help, if required, from several wholesale firms. At Bournemouth, on July 30, the Executive was able to announce a small but welcome increase in revenue and to state the actual total of paid-up members: 1,130.

In his opening address, Mr. Martin was still critical of pharmacy as practised by the great majority of pharmacists. In the whirlwind of modern trade it was already threatened and in danger of being overwhelmed. Local associations were so lax as to admit unqualified traders to their meetings. The current draft Bill to admit associates to full membership of the Pharmaceutical Society without passing the Major examination was both unfair and unwise. A new Pharmacy Act was indeed desirable, but its central idea and keynote should be improved education not a debasement. A higher standard of preliminary education, more thorough basic scientific training in addition to but not superseding apprenticeship, a course of compulsory study at a University College pharmacy department, with the necessary complement of examinations should be the qualification for the title of pharmacist. Registration as a member of the Society could then follow on payment of a suitable fee. Higher education should be encouraged by the award of a Fellowship, following a further compulsory course and a much stiffer examination. The title having been earned, it should be legally restricted and its owner legally protected in the exercise of his calling. "On no other basis but education has the pharmacist the slightest ground or claim to ask for such protection." It would take a generation for all that to come about, and by that time pharmacists would have really and truly justified the transfer of dispensing from medicine to pharmacy. Meanwhile they should work towards a conjoint board of the two professions for the production of the Pharmacopæia, to make it inclusive of all that was best in modern materia medica. "The omissions from the B.P. provide the happy hunting ground for the cupidity of the empiric and the quack." As for pharmaceutical research, it should not be regarded as for young men only. "One of the greatest mistakes connected with modern scientific education is the inducement which has been given to young students to write and to talk before they have read and thought.' Finally came an idyllic picture of an English Scheele, retiring to his little room behind the shop after a long day's work to still more work, but this time on some new aspect of his favourite natural science, worlds away from "the political, the trade, the advertising spirit of official pharmacy" of which Mr. Martin was becoming weary-a note which Mr. Carteighe carefully recorded for future reference.

The report of the Executive was approved. Dr. Symes noted the financial position and expressed the opinion that members generally would support the idea of an increased subscription in preference to reliance on outside support. The point was not taken further and the Conference proceeded to digest its seventeen papers, which had many features of interest. Mr. W. Elborne's amusing attack on the metric system is still topical after more than half a century has elapsed. He described it as essentially artificial, a product of French logic stretched to absurd lengths; it had its uses in theoretical and research work, but it was unsuitable for the art of pharmacy as practised in this country. Mr. Michael Carteighe, a recent witness before a Select Committee of the House of Commons which investigated the subject, admitted the humour, but had no difficulty in refuting the serious arguments. The system was "used in all accurate work throughout the civilised world, and the best answer to Mr. Elborne's objections was that, when a nation like the Germans used a system invented by their natural enemies, the French, the Britisher, with all his pride, might be well content to follow." Grains versus milligrammes also cropped up in the discussion that followed Dr. Charles Symes' paper on the B.P. Most members found it so much easier to think in grains that they seemed content to let the

prescriber make the running. Why try to force a dubious reform on an unprepared medical profession? Professor H. G. Greenish reported on thirty-two samples of powdered ipecacuanha and succeeded in impressing members with the practical usefulness of the microscope. A purely chemical evaluation could not distinguish between a genuine powder and a heap of sawdust impregnated with the appropriate alkaloid. The mantle of Mr. Thomas Greenish was evidently falling on worthy shoulders. Mr. E. J. Parry described a revised test for sandalwood oil, Mr. Cripps was continuing his work on ipecacuanha, and Messrs. Farr and Wright had been examining samples of tinctures taken at random from good-class pharmacies, and finding too many variations. It was not sufficient to use standardised drugs and then assume that tinctures therefrom must be of standard strength. The tinctures must themselves be standardised. Mr. Edmund White described the system of sterilising dressings which he had recently introduced at St. Thomas's Hospital, where surgeons of the younger generation were adopting aseptic in preference to antiseptic methods.

During the concluding courtesies Mr. Carteighe thanked the president for his conduct of the meeting and gently insinuated the hope that that contact with his confrères might tend to increase his feelings of regard and affection "of which they had sometimes felt a little doubt." Mr. Martin, of course, denied any personal animus, and as for Mr. Carteighe's "reckonings to come," he was ready for them; his sole wish was for the advancement of pharmacy. Mr. W. Martindale was elected president for the ensuing year and Dr. Symes had no difficulty in persuading members that the only possible meeting place was Liverpool.

A PHARMACIST'S ANTHOLOGY

THE NATURE OF METALLS

From "The Sceptical Chymist," by Robert Boyle, 1661 I REFER (saies Carneades) to another occasion, the use that may be made of these narratives towards the explicating the nature of metalls; and that of fixtness, malleableness, and some other qualities conspicuous in them. And, in the meantime, this I may at present deduce from these observations; That 'tis not very probable, that, whensoever a mineral, or even a metal, is to be generated in the bowels of the earth, nature needs to have at hand both salt, and sulphur, and mercury to compound it of; for, not to urge that the two last relations seem less to favour the chymists than Aristotle, who would have metals generated of certain halitus or steams, the forementioned observations together, make it seem more likely that the mineral earths or those metalline steams (wherewith probably such earths are plentifully imbued) do contain in them some seminal rudiment, or something equivalent thereunto; by whose plastick power the rest of the matter, though perhaps terrestrial and heavy, is in tract of time fashioned into this or that metalline ore; almost (as I formerly noted) as that fair water was by the seminal principle of mint, pompions, and other vegetables, contrived into bodies answerable to such seeds. And that such alterations of terrestrial matter are not impossible, seems evident from that notable practice of the boylers of salt-petre, who unanimously observe, as well here in England as in other countries, that if an earth pregnant with nitre be deprived, by the affusion of water, of all its true and dissoluble salt, yet the earth will after some years yeeld them salt-petre again; for which reason some of the eminent and skilfullest of them keep it in heaps as a perpetual mine of salt-petre; whence it may appear, that the seminal principle of nitre latent in the earth does by degrees transforme the neighbouring matter into a nitrous body; for though I deny that some volatile nitre may by such earths be attracted (as they speak) out of the air, yet that the innermost parts of such great heaps that lye so remote from the air should borrow from it all the nitre they abound with, is not probable, for other reasons besides the remoteness of the air, though I have not the leasure to mention them. And I remember that a person of great credit, and well acquainted with the wayes of making vitriol, affirmed to me, that he had observed, that a kind of mineral which abounds in that salt, being kept within doors . . . did of itself in no very long time turn into vitriol.

From APOTHECARY to PHARMACIST: A Study of changes of title

T. D. WHITTET, B.Sc., Ph.D., F.P.S., F.R.I.C.

TITLES USED IN ENGLAND AND WALES. 5. THE CHEMISTS AND DRUGGISTS ORGANISE

LTHOUGH the apothecaries dominated pharmacy before the eighteenth century, there is evidence that both Achemists and druggists were engaged in the preparation and sale of drugs and medicines for at least 200 years before the foundation of the Pharmaceutical Society. An excellent account of the origin of the title of chemist appeared in THE CHEMIST AND DRUGGIST in 1926. In it the first mention of the title CHYMIST (as it was then spelled) was said to be in a letter of Sir Thomas Browne in 1663-64, but Bayles (1953) points out that the surgeon George Baker refers to four London chemists in his "The Newe Jewel of Health" (1576). Bayles reproduces an advertisement of John Hester "distiller and spagyrical chemist" and from that it is obvious that Hester dealt in drugs and medicines as well as chemicals. Even earlier, in 1562, Bulleyn, in his Book of Simples, referred to "the Chymistes or Distillers of Waters." Wilson (1927) states that a physician writing about the Plague of 1603 includes among the imposters and empirics "thrasonical and unlettered chemists." No doubt some of the chemists developed from the alchemists, one of whose aims was to discover the elixir of life, and among early English alchemists were Robert of Chester (twelfth century) and Roger Bacon (1214-92) (Thompson, 1932).

Roberts has found that Leonard Tresloe, chemist, of Exeter, was granted an episcopal licence in 1663. Elsewhere

he is described as an apothecary.

Miss Anne Rosenbaum (personal communication) has found, in the records of Bristol, the marriage in 1669 of Richard Kirkwood, chemist.

Christopher Merrett, the bitter critic of the apothecaries, also criticised the chymists in the following extract from his 1669 tract. "Fraudulent practices of some apothecaries damaged honest apothecaries who could not compete with the prices set by the dishonest chymist." In other passages, however, he defended the chemists, declaring "that the apothecaries would undo all the chemists in London and possibly ruin the Corporation of Distillers of Strong Waters" and "such chymists which sell preparations honestly made, complain that few apothecaries will go to the price of them."

The following satirical poem, written in 1680 and quoted by Bell (1843), suggests that even then chemists were dispensing and issuing medicines:—

"'Mongst all professions in the town, Held most in renown, From th' sword to the gown, The upstart chymist rules the roast; For he with his pill, Does ev'n what he will, Employing his skill, Good subjects to kill, That he of his dangerous art may boast. O 'tis the chymist, that man of the fire, Why by his black art, Does soul and body part; He smokes us, and choaks us, And leaves us like Dun in the mire."

Among famous chemists who undoubtedly practised pharmacy were George Wilson, Ambrose Godfrey-Hanckwitz, F.R.S., and John Maude, F.R.S. Wilson published, in 1686, a catalogue of "chymical medicines" prepared in his laboratory at the Sign of the Hermes Trismegistus in Watling Street, London. Godfrey-Hanckwitz, who was chemical operator to Robert Boyle and later to the Society of Apothecaries, opened a pharmacy with the Sign of the Golden Phoenix, in Southampton Street, Covent Garden, in 1707, and that became an important business. John

Maude, described as a famous chemist of Aldersgate Street, was elected F.R.S. in 1738. In the Science Museum at Kensington there is a large rotative engine erected for him in 1795, when he was described as a chemist and druggist.

Druggists

J. M. Good, F.R.S., apothecary and member of the General Pharmaceutic Association, in his History of Medicine (1796), stated that the term DRUGGIST first occurs in a public document in 1662, but the Oxford English Dictionary quotes "Nashe Terrors, 1594, Nt ii 'The hungrie druggier . . . agrees to anything and into court he goes.' "The same source gives the first reference to druggist as 1611. Other variants of this name are DRUGGER, DRUGGIST, DRUGGIST,

Roberts found several instances of druggists being granted episcopal licences to practise medicine and/or surgery, for example, George Mountain of Bristol in 1619 (he was elsewhere described as an apothecary); Joseph Mawdett of Exeter in 1691. Bell and Redwood (1880) stated that the merchants and druggists were a section of the Grocers' Company who merely sold articles in the raw or unprepared state and that the chemists, who were not incorporated, made medicines requiring the aid of fire and which were chiefly, if not entirely, minerals, earths or preparations of the metals. The advertisements of Wilson and Godfrey-Hanckwitz, however, show that they prepared and sold a wide range of pharmaceutical preparations.

Good (1796) stated that "the personns thus separating themselves from the grocery (of the Grocers' Company), were discriminated by the appelation of drug-man or drugsters; and in time they united to themselves the title of chemists in proportion as they interfered with the pursuits of this last art." Barrett (1905) mentions the Company of Druggists asking the Society of Apothecaries in 1664 for a

copy of the Charter of the College of Physicians.

Kramer (1905) quotes from Parliamentary Papers (1884, V,399) "In order to retrieve the losses which they had sustained in the Great Fire of 1666, the London Grocers increased their Company by admitting local druggists and tobacconists. Roberts believes that the druggists almost certainly were the wholesalers of drugs up to the midseventeenth century. Then the terms became less accurate. All those he has studied (up to 1660) were members of the Grocers' Company.

Bell appears to have been incorrect in stating that the chemists were not incorporated, for Grier (1937) stated that there was a Company of Chemists in the early seventeenth century. An article on "Early Press Advertisements," quoted in The Chemist and Druggist (1930), refers to a vendor of medicines for the plague, advertising in a newspaper of July 24, 1665, as "Thomas Williams of the Society of rare and wellmeaning chymists."

In 1813, largely because of the activities of the associated apothecaries, a Bill was presented to Parliament that would have placed the control of pharmacy in the hands of a committee of apothecaries (not the Society of Apothecaries) and would have seriously curtailed the activities of the chemists and druggists. They, therefore, revived the standing committee, which had been formed in 1802 to protect their interests, held a series of meetings, and circularised members of the profession throughout the country. They were so successful in their opposition to the Bill that, in the

Act which was eventually passed in 1815, there was a clause specifically stating that nothing in it should interfere with the rights of the chemists and druggists. The committee met again in 1829 to protest against the stamp duty, and formed a society called the General Association of Chemists and Druggists of Great Britain. That society lasted for only a few months (Bell, 1843).

In 1841 another Bill was introduced that would have compelled the chemists and druggists to apply to a body on which they were not to be represented for an annual licence to practise.

To combat it a public meeting of chemists and druggists

was held at the Crown and Anchor Tavern [in London?] and a committee was formed to protect their interests. Shortly aferwards they founded the Pharmaceutical Society of Great Britain, which was also joined by some of the apothecaries still practising pharmacy. Even after the foundation of the Pharmaceutical Society another body, the "United Society of Chemists and Druggists," was formed to look after the business interests of the profession, and that organisation took part in securing the 1868 Pharmacy Act. Shortly afterwards it was disbanded, the members joining the Pharmaceutical Society, which became the examining, controlling and registering body for pharmacists.



What doctors are reading about developments in drugs and treatments

FOLLOWING reports in recent years that halothane had a toxic effect on the liver, a retrospective study of 15,747 patients to whom halothane had been administered, and 6,123 who had been given non-halothane anæsthetics, carried out in the United Cardiff Hospitals. No statistical differences in postoperative stay in hospital, mortality, or effects on the liver were shown between the two groups. (B.M.J., August 8, p.329.)

THE analgesic and sedative effects in labour of oxymorphone (Numorphan) and pethidine have been compared at King's College Hospital, London. In a double blind trial the two drugs were found equally safe and effective but the authors consider that neither drug on its own represents the ideal obstetric analgesic. (B.M.J., August 8, p. 353.)

OPTIC neuritis, which developed in patient six weeks after beginning of therapy with sodium fluoride for spinal osteoporosis, is suggested as having a possible connection with that compound. (B.M.J., August 8, p. 355.)

HISTAMINE acid phosphate was administered by continuous intravenous infusion at United Cardiff Hospitals to stimulate a "steady-state" secretory response in estimating of gastric acid output. The method was found to be practicable and valid and it appeared to offer advantages in comfort to the patient. (Lancet, August 8, p. 270.)

Controlling Weight and Blood Sugar

THE anorectic side-effect of phenformin (Dibotin) has been put to use by workers at Aberdeen Royal Infirmary to induce weight loss at the same time as the drug was controlling the blood-sugar level in patients with maturityonset diabetes. Results of a trial covering 165 obese patients indicated that phenformin has a potent effect in inducing a continuing weight loss, the effect being the greater early in treatment. There was also better control of blood sugar than had been attained previously, but the authors stress the need to adjust dosage carefully if anorexia is to be achieved without causing further side effects. (Lancet, August 8, p. 282.)

A LETTER to the Lancet (August 8, p. 312) makes the suggestion (based on a reported case history) that Bovril may be among precipitating factors inducing hypertensive crises in patients receiving therapy with a monoamine-oxidase inhibitor.

Antibacterial Activity of Certain **Penicillins**

Abstract

A COMPARISON (Brit. med. J., 1964. II. 344) of the antibacterial activity of (methicillin, cloxacillin, nafcillin, ancillin, and quipacillin, constitution, constitution, and constitution and constitutio lin and quinacillin) and two cephalosporins (cephalothin and cephalothin with the acetoxy-3 group replaced by pyridine (ceph. 87/4)) by workers at the Post-graduate Medical School of London, demonstrated that, though none was so active as benzylpenicillin against penicillin-sensitive staphylococci, all were active against Staph, aureus. They showed about equal activity against penicillin-sensitive and penicillinase-producing strains. Differences in activity were reduced in tests using a large inoculum. In the presence of serum, ceph. 87/4 was the most active compound. In tests using methicillin-resis-

tant strains of Staph. aureus some crossresistance was noted with all compounds, but more resistance was shown to quinacillin and the usual increase in minimum inhibitory concentration with a large inoculum was not found. Variations were found in the order of activity against other penicillin-sensitive bacteria. Ceph. 87/4 was most active against Str. pyrogenes and Str. pneumoniæ and against B. anthracis (against which methicillin was equally active). Against N. gonorrhoe α the most active of the compounds was methicillin, which had little less activity than benzyl-penicillin. None of the penicillins showed significant activity against coliform bacilli. The activity of the cephalosporins against *E. coli*, salmonellæ and shigellæ was similar to that of ampicillin. They were more active against some strains of Proteus and Klebsiella spp. Serial passaging of strains of Pr. mirabilis, Kl. arogenes and E. coli through ceph. 87/4 rendered them fairly resistant to the antibiotic, but without increase in cephalosporinase activity. Passage through benzylpencillin resulted in an increase in resistance associated in Kl. arogenes with increased penicillinase and cephalosporinase activity. Cross-resistance, though not complete, was considerable. The authors conclude that, clinically, there is little to choose between the penicil-linase-resistant penicillins. They suggest that the cephalosporins may be more effective against penicillinase-producing staphylococci and that they might be more useful than ampicillin in treating infections involving many varieties of coliform bacilli. They are also useful in hypersensitivity to penicillin.

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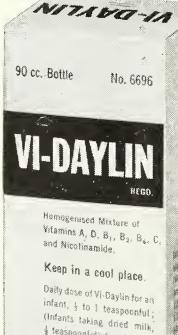
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THE DRUG WORLD IN AMERICA

Bulletin on events and trends in pharmacy, the industry and the Administration.

DR. RUDOLF SEIDEN

TOTAL sales by United States pharmaceutical speciality manufacturers in 1963 were nearly \$3,500 millions or 7 per cent. more than in 1962. Domestic sales, at \$2,600 millions in 1963, showed an increase of 5 per cent. over 1962. Drug industry employment in the U.S. remained at about 107,000. Foreign sales rose 15 per cent. to \$865 millions. Overseas employment by U.S. firms rose 10 per cent. to 72,000. Capital investment per production worker averaged \$44,300 in 1963—twice as much as the all-industry average.

Tetracycline Law Suits

The Pfizer Corporation holds U.S. products patent No. 2,699,054 on tetracycline. Some years ago the company granted licences under the patent to American Cyanamid Co. (Lederle Laboratories division) and Bristol Laboratories which manufacture tetracycline, and to Olin Mathieson (Squibb division) and Upjohn Co., which sell tetracycline purchased in bulk from other producers. In January the Federal Trade Commission (F.T.C.) ordered Pfizer to licence its tetracycline patent to all domestic applicants on a royalty basis. It also ordered American Cyanamid to licence its two U.S. process patents 2,482,055 and 2,609,329 on Aureomycin. Tetracycline was originally made by first producing chlortetracycline (Aureomycin) by fermentation, and then converting the chlortetracycline chemically to tetracycline; now there exists a method for producing tetracycline direct by fermentation. Both the Pfizer and American Cyanamid organisations have appealed against the F.T.C. order, which remains inoperative pending a court decision. Both companies are also fighting infringements of their patent wherever they appear; most cases are based on the use of tetracycline imported from unlicensed producers in Italy.

The Pfizer concern alone has brought suits against fifteen U.S. pharmaceutical companies for selling products containing tetracycline produced in Italy; it has also sued the City of New York for buying tetracycline products made from imported Italian-made tetracycline. The company, however, is unable to obtain an injunction to prevent the Federal Government from buying tetracycline from unlicensed foreign sources, which the Military Medical Supply Agency, a branch of the U.S. Department of Defense, started doing after 1959.

Sustained-action Cold Capsules

Court hearings against a number of companies engaged in the production of "sustained-action" or "time disintegration" cold capsules on charges of false claims were announced by the Food and Drug Administration recently. Such products were being manufactured, it was stated, by a few firms for distribution under more than 100 private names. The labels claim that the cold capsules provide up to 12 hours of continuous relief from cold symptoms.

The F.D.A. investigators established that the seized products contained too little of active ingredients to be effective over a 12-hour period. A capsule containing an effective dose for a 12-hour period would require a New Drug Application (N.D.A.) to assure its safety and efficacy.

Anti-inflammatory Non-steroids

A series of non-steroidal anti-inflammatory agents effective against arthritis and other rheumatic diseases is reported to have been developed by Parke, Davis & Co. They include mefenamic acid (Ponstan, see C. & D., November 9, 1963, p. 500), flufenamic acid, and an as yet unnamed compound called CI-583. Mefenamic acid is said to have properties similar to aspirin in alleviating fever, but to be five times as potent in its anti-inflammatory action and as a pain killer. CI-583 is claimed to be 150 times more potent than aspirin as an anti-inflammatory agent.

Prescription Audit

The Gosselin National Prescription Audit, recently released, states that there was an 8.8 per cent. drop between 1962 and 1963 in the number of new prescriptions written by physicians who did not specify any brand. Generic prescriptions were written for 472 drugs, over 52 per cent. of the total being accounted for by the top ten (phenobarbitone, penicillin G, thyroid, paregoric, codeine, prednisone, nitroglycerin, meprobamate, reserpine and tetracycline).

There were only seventeen changes in the top 200 prescription drugs, which accounted for 64·5 per cent. of all new prescriptions written. Only two of the seventeen products were introduced in 1962, two in 1961, and three in 1960. The average charge per prescription in 1963 was \$3·35 (24s.) against \$3·26 in 1962.

Antibiotics at 19·2 per cent. (18·6 per cent. in 1962) continued to account for the largest portion of the new prescriptions in 1963; average price was \$4·31 (\$4·37). The second largest group (8·6 per cent. in 1963) was cough-and-cold preparations (average \$2·33).

The number of generic prescriptions was down 1.9 millions, reading only 9.8 millions in 1963.

Manufacturers' Test Action

The Pharmaceutical Manufacturing Association (P.M.A.) and forty-one companies have filed a lawsuit to find out whether the 1962 drug amendments require proof of efficacy of some 2,000 long-established drugs (see C. & D., June 6, p. 561). The action is an attempt to nullify the F.D.A.'s claimed right to demand proof of efficacy for so-called "old" drugs which had N.D.A. status between the years 1938 and 1962. The industry contends that the revised law applies only to those new drugs for which an "N.D.A." is currently in effect. The industry also

objects to the new regulations requiring filing of massive informations, including a statement by responsible drugfirm officials, indicating whether product labelling fairly reflects clinical experience with the drug. The regulations prescribe stiff penalties for violation. Dr. Austin Smith (P.M.A. president) states that the suit relates to "widely used and well-known drugs" including vitamins, sulphonamides, liver preparations, insulin, hormones, calamine lotion, iron and ephedrine.

New Drugs

The following drugs are on the market:—

INDOKLON, or flurothyl, is bis-(2,2,2,-trifluoroethyl)ether. It is a volatile liquid used in the treatment of psychiatric patients by inducing petit mal seizures. Administration of 2 c.c. of the drug is by special vaporiser, oxygen, and face mask. Contraindications are upper respiratory infections, cardiovascular, hepatic, or renal disease (Ohio Chemical Co.).

MAXIBOLIN, or ethylestrenol, is 17-alphaethyl-4-estrene-17-beta-ol. It is used orally in all conditions amenable to anabolic therapy (Organon).

The following drugs are under est:—

HEXOPYRONIUM BROMIDE, used as 0.5 per cent. solution topically, suppresses prickly heat (Robins).

ISOAMINILE CITRATE, when tested, was found to reduce cough in close to 96 per cent. of the patients on whom it was tried (Robins).

OXAZEPAM, a chlordiazepoxide analogue, modifies disturbed behaviour in senile patients; it is said to be almost free of antidepressive and antianxiety properties (Wyeth).

TUBERCIDIN is a cytotoxic antibiotic which showed some inhibitory action against various types of tumours (Upjohn).

WORLD TRADE

West German Chemicals.—West Germany's chemical imports rose by 13.9 per cent. in the first five months of 1964 to a total of DM1,530 millions, the Chemical Industry Association reported on August 7. Imports from the European Economic Community partner countries advanced by 18.5 per cent. to DM585 millions, but imports from European Free Trade Association countries advanced by only 8.8 per cent, to DM343 millions. The rise in imports from the E.F.T.A. was mainly accounted for by a 19 per cent. increase in British chemical exports to West Germany to a total of DM120 millions. On the other hand, Britain bought 36.3 per cent. more chemicals from West Germany in the period raising her purchases to DM222 millions. Switzerland and Austria were other E.F.T.A. countries buying substantially more from West Germany during the period, while Belgium and Luxembourg were prominent among the E.E.C. partners. Total West German chemical exports in the first five months were 17.4 per cent. higher, at DM3,690 millions, than in the same months of last year. Sales to Africa dropped by 8.8 per cent. but those to South America grew by 12.7 per cent. and to Asia by 12 per cent.

TRADE REPORT

The prices given are those obtained by importers, or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 12: Most important feature of the week among CRUDE DRUGS has been the price boost given to Ergot.

Spanish or Portuguese was advanced by one shilling per lb. at origin and, since there appeared to be little material on the spot, holders were asking 10s. per lb., representing a rise of 3d. on the week. Eastern Europe, which has not been offering material for several years, has now re-entered the market possibly owing to the higher prices now ruling. Among SPICES, Jamaican GINGER was 15s. per cwt. lower. Peppers were mostly easier but PIMENTO BERRIES moved up over 40s. per cwt. on the spot and 20s. for forward delivery. Italian Squill was available on the spot at 180s, per cwt. and Spanish GENTIAN at 190s. (up 15s.). Australian medium amber HONEY was reduced by £20 a ton at origin as from August 11.

The higher cost of the berries caused English-distilled PIMENTO OIL to move up appreciably. LEMON OIL stocks in Sicily were said to be sufficient to meet normal demand; prices were unchanged. LEMONGRASS was three-halfpence per lb. lower for shipment but CAJUPUT was one shilling dearer for prompt delivery. Elsewhere in ESSENTIAL OILS prices were held at previous levels. A report from the United States records that growers of mint oil crops had increased their acreage for PEPPERMINT this year but had reduced the area allotted for SPEARMINT by 23 per cent. compared with last year. Yield prospects for the oils were reported good. Two manufacturers of PHENOLPHTHA-

Two manufacturers of PHENOLPHTHA-LEIN, B.P., in Britain have ceased production of that chemical.

Pharmaceutical Chemicals

ACETIC ACID.—Per ton, in bulk; B.P.C. glacial £80 to £84; 98–100 per cent. £76 to £80. Technical 80 per cent. grades: Pure £70 to £74, technical, £64 to £68. Small lots B.P.C., 5-gall. demijohn, 16s. per gall.; 10 demijohns, 11s. per gall.

ACETYLSALICYLIC ACID. — One-ton lots, 4s. 0½d. per lb.; 5-cwt., 4s. 5d.; 1-cwt., 4s. 8d.

p-Aminosalicylic acid. — Sodium 17s. 6d. per kilo for 1,000-kilo lots.

Ammonium acetate. — Kegs (70-kilos), B.P.C. 1949, 8s. 1d. per kilo. Solution, strong, 3s. 6d. kilo.

Ammonium bicarbonate.—B.P. powder £54 10s, per ton; carbonate, £83 10s, for lump and £87 10s, for powder. All in 1-cwt. free kegs.

Ammonium chloride.—50-kilo lots pure powder, 2s. 1d. per kilo.

Ammonium Nitrate.—Crystals, 1s. 8d. per kilo in 50-kilo lots.

Ammonium sulphate.—50-kilo lots, 2s.

per kilo for B.P.C. 1934 grade.
GLYCYRRHETINIC ACID.—Per oz., 50s.

Hydrochloric acid.—B.P., 50s. per cwt.

in carboys.

HYDROCYANIC ACID.—Dilute B.P.C. 1954, from 4s. to 4s. 7d. per litre, as to quantity; Scheeles' from 4s. 9d. to 5s. 4d.

Hypophosphorous ACID.— B.P.C.

Hypophosphorous acid. — B.P.C., 1959, 15s. 5d. per kilo; 50 per cent., 19s. 3d.

Lactic acid. — B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. for 5-cwt.

lots. Edible, 80 per cent. acid, 2s. 4d. per lb. for under 1-ton lots: 12-winchesters, 2s. 8d. per lb.

Magnesium carbonate. — One-ton lots: LIGHT, 129s. per cwt.; HEAVY, 135s. per cwt.

Magnesium chloride.—Crystals in 50-kilo kegs, 5s. 6d. per kilo.

Magnesium hydroxide.—B.P.C., 1-cwt. lots, 3s. 11d. per lb.; 1-ton, 3s. 6d. per lb.

Magnesium oxide, B.P.—Light, 1-cwt. lots, 3s. 10d. per lb., 1-ton, 3s. 7d.; HEAVY, 5s. 10d. per lb.

Magnesium peroxide.—B.P.C. (15 per cent.), 3s. 11d. per lb. for 1-cwt. lots.

Magnesium phosphates: Dihydrogen, 50-kilo lots, in kegs, 8s. 9d. per kilo; tribasic, in sacks, 8s. 9d. kilo.

Magnesium sulphate. — B.P. in minimum 1-ton lots from £21 per ton. Exsicated, £56 per ton.

Magnesium trisilicate. — (Per lb.). Under 5-cwt. lots, 4s. 1d.; 1-ton, 3s. 4d.

Mandelic acid.—One-cwt. lots, 12s. 6d. per lb. Calcium salt also 12s. 6d. Sodium mandelate, 13s. and Ammonium mandelate 50 per cent. solution, 7s. 6d.

MANDELATE 50 per cent. solution, 7s. 6d.

PARAFFINS. — Prices to wholesale distributors per gall.—Liquid: HEAVY, B.P., in drums, 8s, 8½d. to 8s. 9½d. as to quantity: over 500 gall, in bulk, 8s, 7½d. Light, B.P., drums, 7s, 1½d. to 7s. 2½d.; bulk, 7s. 0½d. Technical white: LIGHT, 6s. 6d. to 6s. 7d. and 6s. 3d. in bulk; MEDIUM, 7s. 7d. to 7s. 8d., bulk, 7s. 4½d. Drums charged and returnable. Soft: Best grades WHITE medium consistency, £116 15s. per ton and soft consistency, £116 15s. per ton and soft consistency, £113 7s. 6d. YELLOW, £94 10s. Other grades (all B.P.) at £95, £100 10s., £106 per ton for white and at £74 17s. 6d. for yellow. All in non-returnable drums delivered.

PARAFORMALDEHYDE.—B.P.C. is 1s. 3d.

Paraformaldehyde.—B.P.C. is 1s. 3d. per lb. for 1-ton lots; 1s. 5d. per lb. for 1-cwt.

Paraldehyde. — B.P. in 12-winchester lots, 2s. 10d. per lb. (6s. 3d. kilo); 10-gall. carboys, 2s. 4d.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 9d.

PHENAZONE.—Imported, 9s. 6d. per lb.

PHENOL.—Ice crystals in bulk, 1s. 4d, per lb. Liquid, B.P., 1s. 9d. per lb. in 56-lb. returnable tins.

PHYSOSTIGMINE.—Per oz. for 4-oz. lots: ALKALOID, 476s.; SALICYLATE, 321s.; SUL-PHATE, 411s.

Potash sulphurated. — Lump, B.P.C. 1959, 6s. 11d. per kilo in 50-kilo drums.

Potassium acetate. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

POTASSIUM BICARBONATE.—B.P. powder, 110s. per cwt. 1-4-cwt. lots and 105s. per cwt. for 5-cwt. and over.

POTASSIUM BROMATE. — In 5-cwt. lots, 5s. 3d. per lb.

Potassium carbonate. — 50-kilo kegs, 5s. 1d. per kilo.

POTASSIUM CHLORATE. — 50-kilo cases, 5s. 6d. per kilo.

POTASSIUM CHLORIDE. — Pure. 50-kilo sacks, 3s. 4d. per kilo.

POTASSIUM HYDROXIDE. — Pellets, B.P., 8s. 9½d. per kilo; sticks, 13s.; technical flake, 4s. All 50-kilo lots.

POTASSIUM 8-HYDROXYQUINOLINE SUL-PHATE.—1-kilo is 55s. per kilo.

Potassium metabisulphite. — Crystals, 50-kilo kegs, 3s. 4d. per kilo.

Potassium nitrate. — Pure in 50-kilo sacks, 2s. 1d. per kilo.

POTASSIUM PERMANGANATE. — B.P. in 1-cwt. lots, 2s. $0\frac{3}{4}$ d. per lb. Technical 218s. 6d. per cwt.; 1-ton lots, quoted at 207s. per cwt.

Potassium phosphate. — B.P.C. 1949, 50-kilo kegs of powder, 8s. 3d. per kilo; granular, 8s. 9d.

Potassium quadroxalate. — One-cwt., 3s. 6d. per lb.

Potassium sulphate. — B.P.C. '49, 1s. 2d. per lb.

Potassium thiocyanate. — 50-kilo lots, 11s. 6d. per kilo in kegs.

ROCHELLE SALT.—Powder or granulated, 5-cwt. lots or over in kegs, 220s. per cwt.; 1-cwt. 222s, 6d. (bags less 5s.).

SULPHOCARBOLATES.—SODIUM PHENOSUL-PHONATE, B.P.C., 1949 (powder), 13s. 4d. per kilo in 50-kilo lots and crystals, 12s. 8d. per kilo. ZINC, B.P.C., 1949, is quoted at the same rate.

SULPHURIC ACID.—Ninepence to 1s. 2\fmathbb{d}. per lb. in winchesters.

TANNIC ACID.—The B.P. fluffy, 8s. 3d. per lb. (5-cwt. lots).

Tartaric acid. — (In kegs): 1-ton lots, 275s. per cwt.; 5-19 cwt., 281s.; 1-4 cwt., 284s. Bags 8s. cwt. less. Crystals 7s. per cwt. more than powder and granular.

THEOBROMINE. — ALKALOID from 31s. to 36s, 6d. per kilo as to quantity;— CALCIUM SALICYLATE from 34s. 6d. to 39s. 6d. per kilo; and—SODIUM SALICYLATE, 31s. 6d. to 36s. 6d.

Industrial Chemicals, Solvents

ACETALDEHYDE. — The 100 per cent. is £122 per ton minimum 1-ton lots.

ACETATES. — Per ton, spot in drums: AMYL, technical, £254 and B.S.S., £256. BUTYL, £136; ETHYL, £113; ISOBUTYL (80 per cent.), £111 and pure, £115; ISOPRO-PYL, £110; METHYL, 80 per cent., £142.

ACETIC ANHYDRIDE. — 12-ton lots £103 per ton; 2½-ton, £107, tanker deliveries.

ACETONE. — One-ton lots spot, £66 per ton in drums.

Carbon Tetrachloride. — In 40-gall. drums, 1 ton and under 2 tons, £83 15s.; 4 tons and upwards, £82 5s.

ISOPROPYL ALCOHOL. — Technical grade (99 per cent.) in tank car lots from 4s. 6d. to 4s. 8d. per gall.; anhydrous in drums, 7s. 1d. to 7s. 4½d. per gall.; in bulk, 6s. 11d. to 7s. 1d.

METHYL ETHYL KETONE. — One-ton lots, £111 10s. per ton.

NAPHTHALENE. — Contract rates for phthalic grade are from £25 per ton in bulk, ex works: lower crystallising whizzed grades from £20 to £25 per ton ex works; ball and flake, £71.

N-BUTYL ALCOHOL. — One-ton lots in drums, £127 per ton and one-drum lots, £136 per ton.

PHTHALATES. — Prices (per ton) one-ton lots in drums: DIBUTYL, £167; DI-ISO-BUTYL, £162; DI-ETHYL, £174; DI-METHYL, £163.

PHTHALIC ANHYDRIDE.—Domestic material quoted at £90 per ton.

Soda Ash.—Four-ton lots, 232s. 6d. per ton delivered.

STEARATES. — Spot prices for minimum 1-ton lots, — Aluminium (all grades), 253s. 6d. per cwt. Calcium (precipitated), 243s. 6d. Lead (30 per cent.), 223s. 6d.; Magnesium (standard), 272s. and (superfine), 302s. Zinc, 226s. to 286s. as to grade

Crude Drugs

- Spot, Spanish ACONITE. 2s. 8d. per lb.; shipment, 2s. 6d., c.i.f.

AGAR. — Kobé No. 1, 12s. 6d. per lb. in bond; August-September shipment, 12s. 3d., c.i.f. Spanish, 15s., duty paid,

ARROWROOT. — St. Vincent from 1s. 3d. to 1s. 6d., as to grade.

BAY.—LEAVES, 1s. 9d. per lb., spot.

Buchu. — Spot value, 4s. 9d. pcr lb.; shipment, 4s., c.i.f.

CARDAMOMS. — Aleppy greens, 9s. 6d. per lb. spot.

— Spot, 235s. per cwt.; new August-September shipment, CASCARA. crop for 220s., c.i.f.

CASSIA.—Fistula, 105s. per cwt. landed; lignea (whole), for prompt shipment, 185s., c.i.f.; selected broken, 175s., c.i.f.

CINNAMON. — QUILLS, Ceylon (per lb., c.i.f.): 4 O's, 9s. 4d.; single O, 7s. 6d.; quillings, 5s. Bark. Seychelles, 90s. cwt. spot.

ERGOT. — Portuguese, 10s. per lb. spot; shipment, 9s. 6d., c.i.f. East European, 8s. 6d. and 8s., c.i.f.

GENTIAN.—Root, 190s. per cwt. spot; shipment, 175s. to 180s., c.i.f., as to origin. GINGER.—(Per cwt.) African, spot, 305s, per cwt. Jamaican No. 3 spot, 625s.; August-September, 555s., c.i.f. Cochin for shipment, 360s., c.i.f.

GUM ACACIA.—Kordofan cleaned sorts, 172s. 6d. per cwt. spot; August shipment, 155s. 6d., c.i.f.

Henna. — Indian, for shipment, 66s.,

HONEY. — (Per cwt.). Australian light amber, 135s, to 140s, and medium amber, 110s, to 115s. (September-October delivery); Argentine, 127s, 6d, to 132s, 6d.; Canadian, 175s.; Mexican, 130s, to 140s., all ex warehouse.

KARAYA. — No. 1 f.a.q. gum, spot, 400s.; No. 2, 335s. per cwt.

KOLA NUTS. - African, 6d. spot and 5½d. per lb., c.i.f.

LANOLIN. — ANHYDROUS B.P. is from 1s. $8\frac{1}{2}$ d. to 1s. $10\frac{1}{2}$ d. per lb. in 1-ton lots delivered free drums.

LEMON PEEL.—Spot, 2s. 3d. per lb.; partially extracted, 1s. 6d.

LINSEED. — Whole, 72s. 6d. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Russian 65s, per cwt.; Anatolian, 60s.; Anatolian decorticated, 170s. Block juice; Anatolian, 210s. to 220s. per cwt.; Italian stick from 395s. to 460s. per cwt.

LOBELIA. — Herb. Dutch on the spot, 4s. 6d. to 5s. 6d. per lb.

MACE.—Whole pale blade, 14s. 6d. per b. on the spot. Shipment, 14s. per lb. f.o.b.

MENTHOL.—Chinese: spot, 26s. 6d. per lb., duty paid; shipment, 25s., c.i.f.; Brazilian, 21s., in bond and shipment, 21s 3d., c.i.f.

MERCURY. — Spot, ex warehouse £100 per flask of 76 lb.

NUTMEGS. — West Indian spot, 80's, 9s. per lb.; unassorted, 7s. 9d.; defectives, 5s. 3d. East Indian for shipment: 80's, 7s. 5d. per lb.; 110's, 7s.; b.w.p., 4s. 5d., all c.i.f.

Nux vomica.—Cochin, 75s. per cwt. on the spot; shipment, 47s. 6d., c.i.f.

Orange peel. — Spot: Sweet ribbon, 1s. 8d. per lb., bitter quarters: West Indian, 10½d.; Spanish, 1s. 9d.

PAPAIN.—E. African for shipment, 35s.,

PEPPER.—White Sarawak spot is 2s. 8½d. to 2s. 10d. per lb.; shipment, 2s. 8½d., c.i.f. Black Sarawak spot, 2s. 4½d., shipment, 2s. 2¾d., c.i.f. Black Malabar is

340s. per cwt., spot nominal; shipment, 317s. 6d., c.i.f.

PIMENTO. — Spot quoted at 690s. per cwt.; shipment, 600s., f.o.b.

PODOPHYLLUM.—Spot per cwt.; Emodi, 225s. (210s., c.i.f.); Peltatum, 200s.

Pyrethrum. — Extracts — partially de-

waxed, 25 per cent. pyrethrins, 69s. to 65s. 6d. per lb.; pale, 82s. 6d. to 79s.; crude oleoresin, 60s. 6d.

QUASSIA. - Supplies virtually unobtainable.

QUILLAIA. — Spot, 120s. per cwt.; shipment, 110s., c.i.f.

RHUBARB.—Good manufacturing, offered at 8s. 6d. per 1b.

SAFFRON. — Mancha superior, 275s. to 280s. per lb., spot.

Sarsaparilla. — Jamaican native red spot, 3s. per lb.; shipment, 2s. 9d., c.i.f. nominal.

SASSAFRAS. - Brazilian is from 2s. 4d. per lb.

pcr lb.

SEEDS. — (Per cwt.) ANISE. — Spanish, 275s., duty paid. CARAWAY.—Dutch, 145s., duty paid. CELERY. — Indian, 162s. 6d., spot; shipment, 162s. 6d., c.i.f. CORIANDER.—Firm. Moroccan on spot, 57s. 6d., duty paid. The shipment price has advanced to 50s., c.i.f., which, according to reports, has been caused by local speculation. CUMIN. — Firm. Spot, Moroccan, 235s., duty paid; Iranian, 245s., duty paid; shipment. Moroccan now 207s. 6d., c.i.f. DILL.—Indian unchanged at 90s., spot; and shipment, 80s., c.i.f. Fennel.—Chinese, 145s.. spot; shipment, 115s., c.i.f. Fenugreek. — Moroccan, 48s. 6d., duty paid; shipment easier at 32s. 6d., c.i.f. Mustard.—English, 43s. to 65s. according to quality. to quality.

SENEGA.—Old crop, 19s. per lb. on the pot. New-crop for shipment, 17s. 6d., spot.

SENNA. — (Per lb.). Tinnevelly LEAVES spot: Prime No. 1, 2s. 3d.; prime No. 2, 1s. 9d.; No. 3, f.a.q. spot, 1s. 3½d. Shipment; No. 3, 1s. 1d., c.i.f. Pods: Tinnevelly, hand-picked, 2s. 6d. to 2s. 9d.; manufacturing, 1s. 9d. spot; shipment, 1s. 6d., c.i.f. Alexandria Pods: hand-picked in limited supplies at 7s. and 4s. 6d.; manufacturing, small lots at from 3s. 3d. manufacturing, small lots at from 3s. 3d.

SHELLAC. — F.O.T.N., 200s. per cwt., No. 1, 215s.; F.O., from 225s.

SLIPPERY ELM BARK. -- Spot offered at 3s. 4d. per lb.

SQUILL. — Italian new crop, 180s, per cwt., spot. Indian, 75s, per cwt., spot.

STRAMONIUM.—Continental LEAVES 85s. per cwt. spot.

STYRAX. - Spot, 16s. 6d. per 1b.; August shipment, 15s., c.i.f.

Tonquin Beans.—Para, spot, 4s. 9d. per lb.; shipment, 4s., c.i.f.; Trinidad, 5s. 6d., spot.

Tragacanth. — No. 1 ribbon, £230 per cwt., nominal. No. 2, £215, nominal.

TURMERIC. — Madras finger offered at 150s. per cwt., spot; shipment, 140s.. c.i.f.

Valerian ROOT. — Spot.: East European, 175s. per cwt.; Indian, 175s. Shipment: Continental, 172s. 6d. to 214s., c.i.f.

Vanillin.—Rates (per lb.) are now:—5-cwt. lots, 21s. 6d.; 1-cwt., 21s. 9d.; 56-lb., 22s.; small quantities, 22s. 6d.

Waxes. — (Per cwt.): Bees'.—Dar-es-Salaam, spot, 455s.; shipment, 435s., c.i.f. Sudanese, spot. 400s., in bond; shipment, 395s., c.i.f. Candelllla, spot. 465s.; forward, 460s. landed. Carnauba, fatty grey spot, 360s.; shipment, 357s. 6d., c.i.f., prime yellow, spot, 750s.; shipment, 700s., c.i.f. c.i.f.

WITCH HAZEL LEAVES.—Spot quotations are 2s. 2d. per lb.; new crop for shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

Almond.—Imported sweet oil is 7s. 3d. per 1b., spot.

BAY.—West Indian about 25s. per lb. on the spot.

CAJUPUT.—Spot, from 10s. per lb.

Cananga.—Spot offers are from 30s. per

CARDAMOM.—Indian from 225s. per lb., spot.

Cassia.—Spot about 35s. per lb. for 80-85 per cent.

CELERY SEED. — Quotations are from 116s. per lb.

CINNAMON.—Best English-distilled, 720s. per lb.; other B.P. oils from 22s. to 120s. per lb. Ceylon leaf, 17s.; Seychelles from 9s. 6d., spot, and 9s., c.i.f., reported.

CITRONELLA. — Ceylon spot, 9s. 6d., shipment, 8s. 9d. per lb., c.i.f. Formosan, 4s. 9d., in bond; shipment, 4s. $7\frac{1}{2}$ d., c.i.f.; Chinese, 4s. 9d., in bond, 4s. $6\frac{1}{2}$ d., c.i.f.

CLOVE.—Madagascar leaf spot, 7s. 4½d. per lb., duty paid; shipment, 6s. 1½d., c.i.f. Rectified, 10s. Distilled bud-oil, ENG-LISH: B.P., 26s. per lb. for 1-cwt. lots.

GERANIUM. - Bourbon, 87s. 6d. to 92s. 6d. per lb. on the spot.

LEMONGRASS. — Spot, 8s. 6d. per lb.; shipment, 8s. 3d., c.i.f.

LIME. — West Indian distilled, 58s. per

lb. on the spot.

NUTMEG.—East Indian B.P. oil is about 40s. per lb. English distilled, 65s.

Orange.—Floridan sweet oil, 5s. per lb. West Indian, 10s.; Spanish, 15s. to 17s. 6d.

PALMAROSA -Shipment, 52s. 6d. per lb. c.i.f.; spot, 60s.

PATCHOULI. — Penang is 25s. duty paid and 23s., c.i.f., per lb.

PENNYROYAL. — Spot, 12s. 6d. per lb. duty paid.

PEPPERMINT. — Arvensis: Chinese spot, 8s., shipment, 7s. $10\frac{1}{2}$ d., c.i.f. Brazilian spot and shipment, 7s. $10\frac{1}{2}$ d., c.i.f. Piperita: Italian, 48s. to 60s., spot; American from 31s, per lb. as to make.

Petitgrain. — Paraguay, 15s. 3d. per lb. spot; shipment, 14s. 9d., c.i.f.

PIMENTO. — English-distilled berry from 200s. per lb. and imported, 32s. 6d. Rectified leaf, 22s. per lb.

PINE. — Pumilionis, 30s. per 1b., sylvestris, 9s.; abietis, 15s.

ROSEMARY.—Spanish, 14s. 6d. per lb., duty paid. Forward, 15s. 6d. landed.

RUE.—Spanish is 23s. 6d. per lb., spot. SAGE.—Spanish, 16s. 6d. per lb., duty paid nominal, Dalmatian, 18s. 6d.

BANDALWOOD. — Mysore, 106s. 6d. per lb., spot. East Indian for shipment, 102s., c.i.f.

Spearmint.—American oil on the spot. 26s. per lb.

THYME.—From 17s. 6d. to 20s. per lb. as to test.

TANGERINE.—Sicilian best quality about 37s. per lb.

VETIVERT. - Bourbon spot, 85s. to 97s. 6d. per lb.

YLANG YLANG. — Best oil quoted about 135s. per lb.

UNITED STATES REPORT

NEW YORK, AUGUST 11: Brazilian MENTHOL dipped 20 cents to \$3.40 a lb. BISMUTH SALTS are now higher because of the advance in the mctal. Natural powdered CAMPHOR is now 90 cents a lb., down five cents. PERU BAL-SAM rose five cents to \$1.25 a lb. Spear-MINT OIL advanced 20 cents to \$3.90 a 1b. while Italian Lemon declined 25 cents to \$4.25.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION From the "Trade Marks Journal," July 22

For deutfrices (3)

DENUCOTIN, 854,186, by Durban's, S.p.A., Milan, Italy.

For all goods (3)

WILD OATS, B854,547, by Mavis Esterher Chamberlain, London, W.2. LORD JIM, 861,746, by Philippe Talbot, Ltd., London, W.1.

For perfumed hair lacquer (3)

ORMONDIE, B861,253, by William Henry Ormandy, Huyton, Lancs.

For all goods, but not including substances far laundry use, cleaning, polishing or scouring (3)
Device, 861,333, by Annie Easter SalamanSimpson, Christchureh, New Zealand.

perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the shampoas, soaps and essential oils, all being

goods for sale in the United Kingdom (3) ROYAL GUARD, 862,244, by Cussons Sons & Co., Ltd., Kersal Vale, Manehester, 7.

For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, shampoos, soaps and essential oils, all being goods for export (3)

ROYAL GUARD, 862,363, by Cussons (International), Ltd., Kersal Vale, Manchester, 7. For pharmaceutical preparations and substances for veterinary use (5)

GESTOVET, 850,349, by Organon Laboratories, Ltd., Morden, Surrey.

For pharmaceutical preparations and substances for the treatment of urinary infections (5)

AMANOL, 852,682, by Siegfried, A.G., Zofingen. Switzerland.

For pharmaceutical preparations and substances

PRIADEL, 856,070, by Miehel Delalande, Paris, France. LUPEXOL, 861,290, by H. Lundbeck & Co., A/S, Copenhagen, Denmark. For selective weed-killing preparations (5)

OXITRIL, 856,155, by May & Baker, Ltd., Dagenham, Essex.

For antibiotical products for medical and veter-

VENDARCIN, 858,036, by Koninklijke Nederlandsche Gist-en Spiritusfabrick, N.V., Delft, Holland.

For all goods (5)

Device with letters BG, B860,413, by British Gypsum, Ltd., London, N.W.1, BEKUNIS, 862,294, by Roha-Werk Walter Bühner & Co., Bremen-Oberneuland, Germany, SYMMETREL, 862,526, by E. I. Dupont de Nemours & Co.,

Wilmington, Delaware, U.S.A. For veterinary and sanitary substances; disinfectants; preparations for killing weeds and destroying vermin; parasiticides and pesticides; insecticides, bactericides, nematocides, fungicides, and herbicides (5)

NARLONE, 854,723, by Dow Chemical Co., Midland, Michigan, U.S.A.

For veterinary products (5) YOMEVET, 859,060, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For pharmaceutical preparations for use in testing

for pregnancy (5)
GRAVITEST, B861,149, by Parke, Davis & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

For electric hair clippers and electric shaving

instruments (8)
NORWEB, 861,052, by North Western Electricity Board, Manchester, 8.

For photographic, cinematographic and optical apparatus and instruments, and parts and fittings

RUBICA, 850,088, by Mayfair Photographic Suppliers (London), Ltd., London, N.W.6. CONCORD, B852,242 by B. Bennett & Sons, Ltd., Edgware, Middlesex. EKTANAR, 858,184, by Kodak Ltd., London, W.C.2.

For photographic and cinematographic instruments, apparatus and utensils; parts and fittings

OXBERRY, 859,494, by Oxberry Corporation, New Roehelle, New York, U.S.A. For electrically-heated blankets and parts and fittings (10)

SLEEPELUX, 861,946, by G.U.S. Merehandise Corporation, Ltd., Manchester, 1.

For medical apparatus and instruments, all for oral therapy (10)

SPINHALER, B858,967, by Benger Laboratories, Ltd., Holmes Chapel, Ches.

From the "Trade Marks Journal," July 29 For chemical products containing saccharin and cyclamate sodium, for use in industry (1)

CYCLAMEX, 862,489, by Boots Pure Drug Co., Ltd., Nottingham,

For preparations for waving the hair and shampoos (3)

REALISTIC MAGIC ACTION, B828,368, by Realistie Co., Cineinnati, Ohio, U.S.A. For all goods (3)

BIDEX, 843,523, by Ed. Geistlich Söhne, A.G., für Chemisehe Industrie, Lucerne, Switzerland, FIONELL, 860,674, by C. H. Bochringer Solm. Ingelheim-on-Rhine, Germany. ringer Sohn, Ingelheim-on-Rhine, Germany, Device, 862,799, by Reckitt & Sons, Ltd., Hull, Yorks.

For hair dressings in the form of creams (3)

Device with words STAGE ONE, B856,013, by John Hawkins, Slough, Bucks.

For liquid detergents (not for use in industrial or manufacturing processes) (3)

CLEF, 851,015, by Scottish Co-operative Wholesale Society, Ltd., Glasgow, C.5. For cleaning, polishing and abrasive preparations

and stain removing preparations (3) UBAX, 856,121, by Werner & Mertz, G.m.b.H., Mainz, Germany.

For soaps, perfumes, cosmetics, hair lotions and

toilet preparations (non-medicated) (3) RECKLESS REDS 858,751, by Saga (Plastics),

Ltd., London, E.8.

For perfumes, non-medicated toilet preparations, essential oils, cosmetics, hair lotions and dentifrices (3)

LIFETONE, B858,800, by Wella Rapid, Ltd., Basingstoke, Hants.
For hair dressing preparations (3)

TROL, 859,179, by Saga (Plastics), Ltd., London, E.8.

For perfumes, non-medicated toilet preparations, cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, shampoos, soaps and essential oils (3)

CUTINE, 859,412, by R. Demuth, Ltd., Farn-Surrey.

DAREENA, 863,620 by Benedict Friars Ltd., Penydarren, Merthyr Tydfil. For all goods (3) and (5)

Device, B843,929-30, by Sterling-Winthrop Group, Ltd., Surbiton, Surrey.

For all goods (3) and for combs and sponges, etc.

Device with word RANELLA, 862,321, 862,334, by Lewis's, Ltd., Liverpool, 1, Manchester, 2, and Birmingham.

For all goods (5)

RUBIVIRIN, 852,848, by Glaxo Laboratories, Ltd., Greenford, Middlesex, DAMMAGAL, NEO-EFRODAL, 852,673-74, by Siegfried, A.G., Zofingen, Switzerland, CERNILTIN, 854,287, by A.B. Cernelle, Vegeholm, Sweden, Device, 859,977, by Spar (Britain), Ltd., Harrow, Middlesex, LIMYLENE, 862,047, by Boots Purc Drug Co. Ltd., Nottingham, MEDI-PACK, 862,522, by Multipacks, Ltd., Surbiton, Surrey. For pharmaceutical preparations for the treatment

of rheumatic ailments (5) RUMASA, 859,209, by Marshall's Pharmaceu-ticals, Ltd., London, W.C.2.

For medicinal, chemical and medicated herbal preparations for use as nutritional additives to foodstuffs (5)

PFIDOMIX, B860,067, by Pfizer, Ltd., Sand-

For pharmaceutical preparations in the form of ointments, lotions, creams and sprays, for the treatment of skin diseases (5)

REMIDERM, 860,316, by E. R. Squibb & Sons, Ltd., Twickenham, Middlesex. For pharmaceutical preparations and substances

CONDEXA, 861,007, by Continental Laboratories, Ltd., Hove, Sussex, ANXIT, 861,599, by H. Lundbeek & Co., A/S, Copenhagen, Denmark.

For pharmaceutical preparations and substances for human and veterinary use (5)

MYLOCON, 860,726 by Parke Davies & Co., Detroit, Michigan, U.S.A., and Hounslow, Middlesex.

For rodenticides (5)

RATICATE 860,759, by Johnson & Johnson, New Brunswiek, New Jersey, U.S.A. For antibiotics and antibiotic preparations (5)

LIMYCIN, 861,128, by Boots Pure Drug Co., Ltd., Nottingham.

For pharmaceutical and veterinary preparations

and substances (5) HISTALOG, 861,147, by Eli Lilly & Co., Indianapolis, Indiana, U.S.A.

For stimulants being pharmaceutical preparations for use in the treatment of the heart (5)
TOLUSIN, 861,478, by Knoll, A.G., Ludwigs-

hafen-on-Rhine, Germany. For pharmaceutical preparations and substances

for human use and for veterinary use, all being in tablet form (5)

TRANSITABS, 862,148, by Phillips Yeast Products, Ltd., London, N.W.10.

For pharmaceutical and veterinary preparations

(5) ENTRIVO, 862,568, by Pfizer, Ltd., Sand-

For insecticides, fungicides, rodenticides weed killers and preparations for destroying pests and

QUINTEX, 863,089, by Murphy Chemical Co., Ltd., Wheathampstead, Herts.

For objectives for photographic cameras, optical projectors, microscopes and field glasses; field glasses and prism oculars (9)

TELYT, 863,886, by Ernst Leitz, G.m.b.H., Wetzlar, Germany.

For electric blankets (10)

NEEB, B862,016, by North Eastern Electricity Board, Newcastle-on-Tyne, 1.

From the "Trade Marks Journal," August 6 Diagnostic reagents for laboratory use to quantitate serum beta-lipoprotein precipitin (1)

BETA-L TEST, B858,907, by Baxter Laboratories, Inc., Morton Grove, Illinois, U.S.A. For preparations for waving the hair, and for shampoos (3)

REALISTIC RX 4, B828,380, by Realistic Co., Cineinnati, Ohio, U.S.A.

For cosmetics and non-medicated toilet powders (3)

LIT. K, 851,990, by L, Leichner, K.G., Berlin-Dahlem, Germany, or non-medicated toilet preparations, soaps,

perfumes, cosmetics, preparations for the hair and dentifrices (3)

MICHEL JAMAS, 858,939, by J. & E. Atkinson, Ltd., Welwyn Garden City, Herts. For soaps, perfumes, non-medicated toilet preparations, essential oils, shaving creams, denti-

parations, essential oits, shaving treatins, demi-frices and preparations for the hair (3)
Device with words and letter MENNEN
QUALITY M, B852,618, by Mennen Co.,
Morris Township, New Jersey, U.S.A.
For non-medicated toilet preparations (3)
DECOMENTS - 50, 261, by Congre-Palmolive

DEOPHENE, 859,381, by Colgate-Palmolive Co., New York, U.S.A.

For perfumes, toilet preparations (non-medicated) cosmetic preparations, and soaps (3)

Device with word NOBLESSE, 859,689, by Noblesse Beauty Products, Ltd., Surbiton,

Surrey. For pharmaceutical preparations and substances for the treatment of gastro-intestinal affections

(5) SEDACOL, 847,496, by Zyma, S.A., Nyon,

Switzerland.

For pharmaceutical, veterinary and sanitary substances, disinfectants, preparations for killing weeds and destroying vermin (5)

Device with word PRIMOBOLAN, 838,688, by Schering, A.G., Berlin, Germany.

For pharmaceutical preparations for the diagnosis of pregnancy and for the treatment of amenor-

MENSOTEST, 856,494, by E. Merek, A.G., Darmstadt, Germany.

WILLS

MRS. E. BARRETT, M.P.S., 5 Westmorland ourt, Lovelace Road, Surbiton, Surrey, left Court, £9,623 (£9,418 net).

MR. F. J. BUTCHER, Providence Cottage, Christ church Hill, Hampstead, London, N.W.3, formerly chairman of Butcher, Curnow & Co., Ltd., ophthalmic opticians, Blackheath, S.E.3, and a director of Johnsons of Hendon (Holdings), Ltd., Hendon Way, London, N.W.4, left £10,876 (£10,681 net).

MR. R. L. CARDWELL, M.P.S., 153 Layton Road, Blackpool, Lancs, left £22,437 (£22,381

MR. G. L. CLUBB, M.P.S., 17 Churston Road, Liverpool, left £23,470 (£23,081 net).

(£25,934 net).

MR. G. F. K. STEWARD, M.P.S., Pengwern,
Conduit Lane, Bridgnorth, Salop, left £13,708

(£13,587 net).

Mr. H. STINSON, 61 Heyworth Road, Leicester, who qualified as a chemist and druggist in 1899,

MR. C. M. C. WADE, M.P.S., 38 Arnold Avenue, Llanrumney, Cardiff, left £1,232 (£938 net).

MR. T. E. G. TANDY, M.P.S., 236 Wells load, Knowle, Bristol, 4, Glos, left £1,251 Road. (£1,201 net).

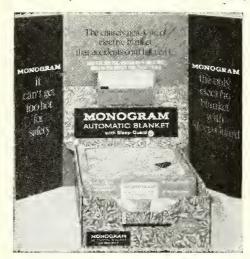
MR. A. G. THOMAS, M.P.S., 19 Houndean Rise, Lewes, Sussex, left £5,057 (£4,927 net).
MR. J. S. WALMSLEY, M.P.S., The Coppice, Martin's End Lane, Great Missenden, Bucks, managing director of E. R. Squibb & Sons, Ltd., a director of Aspro-Nicholas, Ltd., and a former vice-chairman of the Proprietary Association of Great Britain, left £21,007 (£10,523 net).

PRINT AND PUBLICITY

PRESS ADVERTISING

BOEHRINGER INGELHEIM, LTD., Isleworth, Middlesex: Halaspray mouth freshener. In national

CUSSONS, SONS & Co., LTD., Kersal Vale, Manchester: Rhapsody toiletries and Cussons' gift sets. In Woman, Woman's Realm, Vogue, Woman and Home, She, T.V. Times Christ-mas extra, Woman's Own Christmas annual,



SILENTLY SELLING: New display unit for Monogram Safety-matic electric overblanket now available to stockists, 27 in, high by 38 in, wide, the unit is free-standing, its bright blue centre panel is offset by black side panels, with lettering in gold, black and white. The easy-carry box stands against the middle panel, with the folded lid slotted beneath a container holding a supply of free leaflets.

COMMERCIAL TELEVISION

Figures in these columns represent the number of appearances of the "spot" during the week.

August 23—29	London	Mídland	North	Scotland	Wales	South	North-east	Anglia	Ulster	Westward	Border	Grampian	Eireann	Channel Is. W.& N.Wales
1001 cleaner 4711	2	2	3 2	11 2	3 2	2 2	4 2	3 2	3 2	_3	_3	9	_	= =
Alka-Seltzer	4	4 7	4	4 5	4	4	3 1	4 5	4	4	4	4	4	4 4
Androws a liver out	2	2	1	3	2	2	2	3 1	1	2	1	2	_	$\frac{2}{2} - {}$
Achie manudara and sahlasa		_		14					-4		5	3	_	
Beecham's powders	5	4	3	6	4	4	4	4	4	3	2	3	_	2 —
Bisodol	3	_	2	_	_		_	_		_		5	_	
Cutícura preparations	2	2	2	4	2	_						4		
Delrosa rose hip syrup	1	2	_	_	_	2	—	_		_	_	_		
Dettol	3	1	4	7	6	6	4	5	3	3	_	2	_	3 —
Dinneford's magnesia	1	1	_	—	1	1	1	1	_	—			—	
Eno Fruit Salt	3	3	3	3	3	3	_	3	3	_	_	—	-	
Eucryl smokers' tooth-powder	3	2	3	2	_	2	—	_	_	_	—	_	_	
Field's Lady Manhattan	_	1	_	_	_	_	_		_	_	—	-	_	
Floret	_	_	1	_	1	1	_	_	—	—	2	—	-	2 —
Freezone	_	1	_	_	_	_	_	_	_	_	-	_	_	
Germolene	3	3	3	4	3	3	3	3	4	3	_	4	_	
Gillette razor blades	3	3	3	3	3	3	3	3	3	3	3	3	3	3 3
Goya spray set	1	1	1	_	_	1	_	_	_	1	_	_	_	
Imperial Leather	2	2	3	3 11	3	3	2	3	3	2	2	3	_	3 —
Ingram chaving groom		1		11	1	2	4	3	3	3	3	9	_	
Loxene shampoo	_	1	_			_	6			1		_		
Matey	_	_	_	_		2	_	_	_	_		_		
Moorlands indigestion tablets	_	_	5		_			_		_	_			
Nair	1	_	_		3	_	_	_	_	_		_	_	
Phyllesan	3	3	1		3	3	3	2	_	_	_		_	
Rennies	3	3	3	3	3	2	3	3	—	3	4	3		6 —
Rinstead pastilles	_	—	_	-	—	2	—	—	_	_	_			1 —
Salvelox	_	_	_	—	1	_	_	_	_	_	_	_	_	- 1
Sanpic	-	_	_	_	_	_	_	—	-		_	1	_	
Saxin	6	6	5	-	_	-	_	_	_	_	_	—	_	
Steradent	2	_	2	_	2	3	_	_	2	-	_	_	-	
Stinge	1	1	1	1	2	1	1	2	1	1	1	2	_	1 —
NV-1-1-1	1	1	1		1	_	_	2	_	_	_	_	_	— <u> </u>
wright's coal tar soap	1	1	1	_	1	1	2	1		2	2	_	_	— 1

Woman's Weekly and People's Friend,

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1: Veet odourless depilatory. In national Press and large circulation women's magazines.

Dixor, Ltd., St. Leonard's Road, Mortlake, London, S.W.14: Velouty powder cream. In women's magazines.

JAMES NORTH & SONS, LTD., Hyde, Ches: Glovelies. In T.V. Times, T.V. World, Woman and Woman's Realm. LAMBERT CHEMICAL CO., LTD., Chestnut Avenue,

Eastleigh, Hants: Poly hair preparations, In Woman, Woman's Own and Woman's Mirror, Robinson & Sons, Ltd., Wheat Bridge Mills, Chesterfield: Cameo tampons. In Modern Woman, Everywoman, Woman's Mirror, House of the Robinson & Mirror, House of the Robinson Woman's Mirror,

Honey and Woman's Realm. Starting in September.

UNIVERSAL LABORATORIES, LTD., Sandwich, Kent: Trimetts. In woman's magazines.

YARDLEY & Co., LTD., 33 Old Bond Street, London, W.1: Yardley new range of beauty products. In Woman, Woman's Own, Woman's Realm, Vogue and Harper's Bazaar.

PUBLICATIONS Booklets and Leaflets

F. W. BERK & Co., LTD., 8 Baker Street, London, W.1: "Hefti, Ltd., chemical products" (12-p. survey of the properties and applications of Sorbex softener).

Thos, Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lyne, Lancs: "The Vale of Bardsley Story" (32-p. booklet describing the company's activities).



DISPLAY "DISPENSER": Illustration shows a new display "dispenser" unit specially designed to carry retail chemists' counter stocks of Dr. Wernet's denture fixative powder and Dentu-creme special tooth-paste for false teeth. The stand has been designed to take minimum counter space (7 x 4 in.) and to "tie in" with Press and television campaigns that are being used to promote both products. The stand is available on application to Stafford-Miller, Ltd., 166 Great North Road, Hatfield, Herts, or from the company's representatives.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, August 23

FIRST WORLD CONGRESS OF JEWISH PHARMACISTS, Israel. Until August 30.

Advance Information

GLASGOW PHARMACY CLUB. Whist drives have been arranged for the following dates, 1964: October 13, November 3, December 1; 1965: January 12, February 2, March 2, Dinner and dance: October 27.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," July 22

Combined photographic pivoted blade shutter and diaphragm. Agfa, A.G. 968,217.

phytopathogenic Preparations for combating micro-organisms. CIBA, Ltd. 968,240,

Dihalogeno-amino-benzylamines. Karl G.m.b.H. 968,254.

Unsaturated 16-methylene-3-keto-steroids and process for their manufacture. E. Merck, A.G. 968,255.

Kinematograph cameras, Paillard, S.A. 968,256. Pre-packed injection, E. A. Brown, 968,303.

Process for the production of geminal dimer-captans. Farbenfabrik Wolfen, V.E.B. 968,304. Apparatus for the collection and sampling of

blood. Abbott Laboratories. 968,306.
Collapsible cartons. Field, Sons & Co., Ltd. 968.312.

Diagnostic device. Baxter Laboratories, Inc.

968.314. Recovery of cephalosporin C. National Research

Development Corporation, 968,324. Production of detergent alkylate, British Hydro-

carbon Chemicals, Ltd. 968,338-39. Blade for an electric dry shaver. Wahl Clipper Corporation, 968,341.

Razor cases, shaving kits, and the like. Philip

Morris, Inc. 968,371.

Shaving-kits, Philip Morris, Inc. 968,372.

Catheters and the like and the manufacture thereof, J. G. Franklin & Sons, Ltd., R. H. Muller and J. M. Mensing. 968,376.

Dibenzodiazepinone derivatives. Parke, Davis & Co. 968,395.

Dye sensitised photographic enulsions, Kodak, Ltd. 968,396.

Fluorescent compositions for the internal-examination of animals. Soc. de Produits Chimiques et de Synthese, 968,410.

Theophylline derivatives, Orsymonde, 968,412. Hydroxy-aminoacetic acid derivatives, Merck & Co., Inc. 968,417.

Modification of starch. Penick & Ford, Inc. 968,427.

Process for the production of L-glutamic acid. Ajinomoto Co., Inc., and Sanraku Distillers Co., Inc. 968,428.

Hollow needles. Baxter Laboratories, Inc. 968,440. Process for the production of dragees, C. F. Boehringer & Sochne, G.m.b.H., 968,441.

Device for the production of dragees, C. F.

Boehringer & Soehne, G.m.b.H. 968,442.

Dragee-making suspensions. C. F. Boehringer & Soehne, G.m.b.H. 968,443.

Hair drying hoods. Pifco, Ltd. 968,459.

Hydrazine derivatives and a process for the manufacture thereof. F. Hoffmann-La Roche & Co., A.G. 968,460,

Substituted pyrazolone derivatives and their use in colour photography. Ilford, Ltd. 968,461.

Portable water-distillation apparatus, Eastwood

Plastics, Ltd. 968,477.

Steroids and methods of their preparation. E. Merck, A.G. 968,497.

Substituted phenylbicyclononanes, Abbott Laboratorics 968,499.

Substituted chromancarboxylic acids and their methyl esters. Abbott Laboratories. 968,500.

O,S-disubstituted thiol-type thiamines and process for preparing them. Shionogi & Co., Ltd.

Production of HCN, Dow Chemical Co. 968,519. Method for the production of L-glutaminic acid. Commercial Solvents Corporation, 968,560,

Packaging of vapour permeable reservoirs. Becton Dickinson & Co. 968,580.

Manufacture of plaster of paris and other porous bandages, and other coated carriers or surfaces. T. J. Smith & Nephew, Ltd. 968,617.

Disinfectant composition, J. T. McMullins. 968.620.

Herbicidal compositions containing 3-substituted uracils, E. I. du Pont de Nemours & Co. 968,661-62, °68,666.

3-substituted uracils, E. I. du Pont de Nemours & Co. 968,663-65.

Kinematographic apparatus having a device for the automatic hooking of a film on a receiving spool. Paillard, S.A. 968,690.

Teats or nipples for feeding of infants and domesticated manimals. Messines Developments, Ltd. 968,698.

Process for stabilisation of castor oil, Imperial Chemical Industries, Ltd. 968,632.

Analeptically active N-substituted amino-norcam-

phane derivatives and their addition salts with acids and their quaternary amnonium compounds. E. Merck, A.G. 968,714.

Closure for bottles, phials and the like and bottles, phials and the like to be fitted with this closure. Fletcher Fletcher & Co., Ltd. 968,726.
Sodium perborate trihydrate. K.K. Industricele

Maatschappij Voorheen Noury & Van der Hande, N.V. 968,742. 19-Nor-steroid-ketals and process for their manu-

facture. CIBA, Ltd. 968,746.

Production of benzonitrile, Distillers Co., Ltd. 968.752.

Stabilisation of formaldehyde. Imperial Chemical Industries, Ltd. 968,762.

Heterocyclic dithiophosphonic acid esters, Hooker Chemical Corporation, 968,775, Method and composition for accelerating animal

growth, Pillsbury Co. 968,776.

Plaster bandage. Johnson & Johnson. 968,782. Preparation of aminoalkyl starch ethers, National Starch & Chemical Corporation, 968,783,

Eye-washing appliance, Commissariat a l'Energic Atomique, 968,784.

Benzene-sulphonyl semi-carbazides. C. F. Bochringer & Soehne, G.m.b.H. 968,805. Fungicides comprising diaryl-azo compounds, Far-

benfabriken Bayer, A.G. 968,807. Substituted imino-methylene ureas and their use

as herbicides. Badische Anilin- & Soda-Fabrik. A.G. 968,811.

Hydroxytrimesic acid. Henkel & Cie, G.m.b.H. 968 829

Production of titanium dioxide. British Titan Products Co., Ltd. 968,832.

Collagen fibre materials. Armour & Co. 968,840. Mixed esters of naphthenic and acyclic carboxylic acids, Rohm & Haas Co. 968,849.

Processing machine for photographic material. Agfa, A.G. 968,869.

Esters of the androstane series and process for

their manufacture. CIBA, Ltd. 968,870.

Detergent bars. Colgate-Palmolive Co. 968,880.

Process of preserving gelatinous compositions from decomposition, Gevaert Photo-Producten, N.V. 968.883.

Manufacture of phosphorus-containing isocyanates. Imperial Chemical Industries, Ltd. 968,886.

Gelatin derivatives and photographic materials prepared therewith, Gevaert Photo-Producten, N.V. 968,892.

British patent specifications relating to the above will be obtainable (price 4s. 6d. cach) from the Patent Office, 23 Southampton Buildings, Chancery Lanc, London, W.C.2, from September 2.

From the "Official Journal (Patents)," July 29

Preparation of fluorocarbons and halofluorocar-Imperial Chemical Industrics, bone Ltd. 968,900.

Catalytic compositions. Distillers Co., Ltd. 968,924.

Photographic flash device, Eastman Kodak Co. 968.932.

Device for regulating the exposure time photographic cameras. Alfred Gauthicr, G.m.b.H. 968,940.

Production of alkylpyridines, Distillers Co., Ltd. 968,945-46.

Measles virus vaccine. Wellcome Foundation, Ltd. 968,980.

Substituted tetrahydrofurfurylamines, Merck & Co., Inc. 969,011.

Process for the preparation of alkenyl esters of carboxylic acids, Shell Internationale Research Maatschappij, N.V. 969,017-18,

Substituted ureas. Olin Mathieson Chemical Corporation, 969,022.

5-piperazinyl-10,11 - dihydro-dibenzocycloheptenes. K.K. Pharmaceutische Fabrieken Voorheem S. Pharmacia, Brocades-Stheeman 969 023.

Dihydrodibenzocycloheptene carboxylic acid esters. K.K. Pharmaceutische Fabrieken Brocades-Stheeman & Pharmac Pharmacia. 969.024.

Dihydrodibenzocycloheptene derivatives. Pharmaceutische Fabrieken Voorheem Brocades-

Stheeman & Pharmacia, N.V. 969,025.

Dextromethorphan salt and a process for its manufacture. F. Hoffmann-La Roche & Co., A.G. 969,143.

Tetraliydrodibenzocyclooctene derivatives. K.K. Pharmaceutische Fabrieken Voorheem Brocades-

Stheeman & Pharmacia, N.V. 969,026.

Tetrahydrodibenzazocines, K.K. Pharmaceutische
Fabrieken Voorheem Brocades-Stheeman & Pharmacia, N.V. 969,027-28.

Nitro-furyl-thiazole derivatives. Imperial Chemical Industries, Ltd. 969,031.

Process for the production of basic ethers of bis-

spiro-Indanes. Knoll, A.G., Chemische Fabriken. 969.032.

Spools. Eastman Kodak Co. 969,038.

Esters of reserpilic acid and the preparation thereof. Indalco, S., 969,040.

Quaternary ammonium compounds. Farbenfabriken Bayer, A.G. 969,044.

Herbicidal compositions and methods of employing same, FMC Corporation, 969,052.

Pyrrolidinones, thionpyrrolidinones, the production thereof and compositions thereof. A. H. Robins Co., Inc. 969,063. α-substituted l-naphthylacetic acids and pharma-

ceutical compositions containing sames Institute de Angeli, S.p.A. 969.068.

viewing systems. Barr & Stroud, Ltd. 969,071.

Tertiary amines and a process for the manufacture thereof. F. Hoffman-La Roche & Co., A.G. 969,077.

Dithiophosphoric acid ester derivatives having herbicidal properties. Staiffer Chemical Co. 969.080.

Polyhydro-phenanthrene derivatives and a process for the manufacture thereof. F. Hoffmann-La Roche & Co., A.G. 969,083.

Pyrimidine derivatives and a process for the manufacture thereof, F. Hoffmann-La Roche & Co., A.G. 969,098.

Pyrimidine derivatives and a process for the pre-paration thereof, F. Hoffmann-La Roche & Co., A.G. 969,099.

Derivatives of hydrazine. Norwich Pharmacal Co. 969,101.

Continuous method of soap making, Separator, A.B. 969,112.

Diels-alder adductions with aromatic dienophiles. J. Hyman, 969,122.
Phosphorus-containing heterocycles and methods

for preparing same, American Cyanamid Co. 969 129

Substituted oxazolidinones, Polichimica Sap, S.p.A. 969,126.

British patent specifications relating to the above will be obtainable (price 4s, 6d, each) from the Patent Office. 23 Southampton Buildings, Chaneery Lane, London, W.C.2, from September 9.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

COST REDUCTION in pharmaceutical operations,
Amer. Perf. and Cosmetics, August 7.
ACTINOMYCIN D, Effect of, on measles virus
growth and interferon production. Nature, August 8,

HALOTHANE and liver dysfunction: a retrospective study, Brit. med. J., August 8. PENICILLINASE-RESISTANT penicillins and cephalo-

sporins. Brit. med. J., August 8.
OXYMORPHONE, Clinical trial of, in labour. Brit.

med. J., August 8. SODIUM FLUORIDE and optic neuritis. Brit. med.

J., Augut 8. CHLOROXYLENOL in aqueous solutions of cetomacrogol. Bacterial activity of. J. Pharm. Phar-

macol, August. HYPOGLYCAEMIC agents. J. Pharm. Pharmacol.

August. ACNE. The treatment of, Practitioner, August.

A NEW TREATMENT for napkin eruptions, Practitioner August

THE HISTAMINE-INFUSION TEST, Lancet, PHENFORMIN in weight reduction in obese dia-

betics. Lancet, August 8. APPLICATIONS OF BIOLOGY in 1984. New Scientist. August 6.

PONSTAN. Drug and Therapeutics Bull., August 7. IMFERON.—Total dose infusion technique. Drug and Therapeutics Bull., August 7.

PESTICIDE RESIDUES in food, Roy, Soc. Health J. APPLICATIONS OF BIOLOGY in 1984. New Scientist, August 6.



HOECHST PHARMACEUTICALS LIMITED

are pleased to announce the introduction of a plastic container for their preparation Rastinon »Hoechst« (tolbutamide B.P.). This will replace the glass bottle used in the past. The price remains unchanged.

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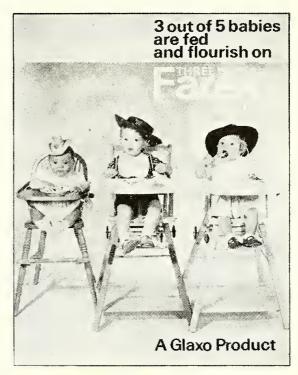
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sk for Three Cereal Farex. During the coming seven this impressive figure should rise. For that the new, strong, exciting advertising campaign ex builds up to its greatest impact. Be sure you ady for increased sales by ordering NOW. Reper Farex now has a new bright carton. It deserves his share of your baby cereal display space.

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s prove Sunday Mirror and Women's magazines e strongest pull for baby products. Farex advertising features prominently in both. Dominant spaces, quency give a big boost to consumer interest.



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Cereal Farex is made by Glaxo Laboratories Ltd., Greenford, Middlesex

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CRESOLOX BRISTOL

Black Disinfectant, R.W. 5/6 and R.W. 26/28. Hospital Disinfectant, R.W. 7/8.

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A FEW PRIZES Up to 99,999 flowering cacti must be won. Yes, you read it right first time, up to 99,999! It's one of our largest-ever promotions. Or, if it comes to that, *anybody's* largest-ever. First prize—a fabulous £2,000 holiday in Mexico. Second prizes—the small collection of cacti we mentioned to you above.

A LITTLE SUPPORT FOR YOU At least 27,000,000 pe will read about this offer in the Sunday Express, Su Mirror, and ITV magazines in weeks commencing and 28th September and 5th October. Chance many of your customers winning prizes are very hand our regular brand advertising remains at same high pitch.



few free cactus prizes this month

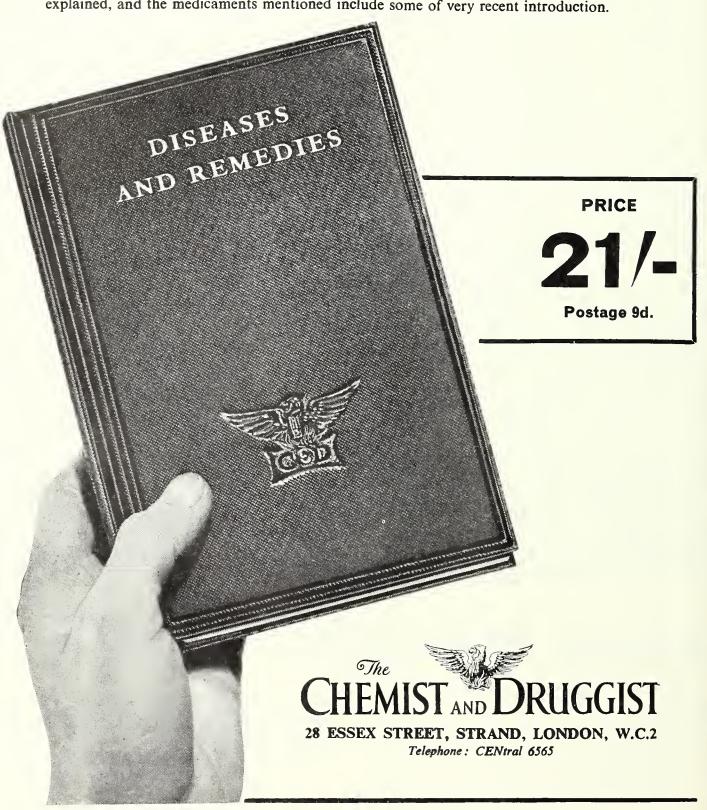
W NEW CUSTOMERS Because there will be so y prizes, there's going to be a rush. So ask our esentative for all the point-of-sale displays you need. 're sales-getters that have proved themselves and again.



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a C&D classic NEW EDITION NOW AVAILABLE

DISEASES AND REMEDIES. A concise survey of the most modern methods of medicine, providing pharmacists (as well as nurses, physiotherapists, dieticians and almoners) with a text-book of information on the treatment of diseases and the drugs used. Accepted methods are explained, and the medicaments mentioned include some of very recent introduction.



TELEPHONE: CENTRAL 6565

Address Box Number Replies to: THE CHEMIST AND DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2.

APPOINTMENTS — 24/- per \(^{''}\) s.c. minimum and pro rata. AGENTS — AUCTION SALES — BUSINESSES FOR SALE and WANTED — CLEARANCES and WANTS — CONTRACTS — MISCELLANEOUS — PATENTS — PARTNERSHIPS — PREMISES — PUBLIC and LEGAL NOTICES — SITUATIONS VACANT. Run-on — 4/- per line (minimum 20/-). Semi-display — 24/- per \(^{''}\) s.c. minimum. Displayed with border rule, larger type faces and blocks — 60/- per s.c.i. minimum. Reduced rates for one-third, one-half and full pages on application. SITUATIONS WANTED — 6/- per 18 words minimum, then 4d, per word. Use of Box No. — 2/-. Advertisements received by 4 p.m. Tuesday published same week.

PREMISES

COUNTY BOROUGH OF WALLASEY Sandhrook Lane Housing Estate Shopping Precinct

Tenders in the envelope to be provided are invited by 31st August, 1964, for a lease of the two remaining shop units. Previous applicants should not re-apply. Preference may be given to applicants prepared to provide the following trades, viz.:—Chemist; chandler, and gent's hair-dresser.

Further particulars and form of tender from the Town Clerk, Town Hall, Wallascy.

A. G. HARRISON, Town Clerk C 6269

RICKMANSWORTH, HERTS.

Last remaining Lock-up Shop in the new town centre Shopping Precinct, unopposed position for a Chemist in this dynamic new centre. Other lettings include Anthony Jackson, Ltd. Supermarket, Clarkes (Bakers), J. H. Sankey (Hardware), Messrs, Rediffusion, J. M. Footwear, Ltd., Messrs, R. W. Bradshaw (Opticians), Benskins Watford Brewery, Ltd., together with greengrocer, Camera shop, pram shop, ladies' hairdresser, ladies' fashions, etc. fashions, etc.

Private car park for 100 cars adjoins

Further particulars from Sole Agents

CHRISTOPHER ROWLAND & CO., Station Road, Rickmansworth. Telephone: 76291/2.

APPOINTMENTS

BATH HOSPITAL MANAGEMENT COMMITTEE, MANOR HOSPITAL, COOMBE PARK, BATH

Pharmacist

required for duties mainly at Bath Eye Infirmary, Whitley Council salary and con-ditions of service. Applications with names of two referees, to Group Secretary. C 9386

CANE HILL HOSPITAL, COULSDON, SURREY

Locum Pharmacist

required from August 31 to September 16, 1964. Salary £20 19s. a week. Apply to Group Secretary. C 9391

BUSINESSES FOR DISPOSAL

A WONDERFUL AND UNUSUAL OPPORTUNITY TO MAKE AN EXCELLENT LIVING AND MONEY AS WELL IN A MAGNIFICENT CLIMATE!

We have a long-established chemist's business for sale in Chingola, Northern Rhodesia.

This is a thriving and pleasant town in the really beautiful Copperbelt, s near the Nchanga Mine, which is by far the richest copper mine in the world.

The climate is glorious, and Chingola has all the sporting amenities that anybody could wish for, and is linked within a radius of thirty miles by fast, modern, tarmac roads to the other Copperbelt towns, such as Kitwe, Mufulira, Luanshya and Ndola.

The shop is part of a modern building in the town centre. It is large and airy, and fitted out with modern fixtures and fittings. The monthly rental is £110, and there is a long lease available.

The average turnover varies between £52,000 and £55,000 per annum, and even after allowing as much as £2,000 annually for the cost of living on an excellent standard, an owner-manager could expect a further profit of from £7,000 yearly.

A pleasant ranch-type house is included in the sale of the business.

The Auditors of the Holding Company, Messrs. Scot-Russell, Murray & Pugh, would be pleased to supply bona fide enquirers with Balance Sheet and full details.

The price required would be the nett assets of the Company (approximately $\pounds 22,000$) plus $\pounds 10,000$ goodwill, or nearest offer (a loan could be arranged for part of the purchase price).

All enquiries, which will be in the strictest confidence, should be addressed to "The Advertiser," "DMM/JL," c/o Central Advertising (C,A), Ltd., P.O. Box 1953, Bulawayo, Southern Rhodesia.

FOR SALE, Highly lucrative Chemist's retail business in large market town in east rural Essex (population over 10,000) centrally situated in the High Street, Freehold premises for sale as a going concern. Full details from Box C 6273.

LESLIE, FIFE-a well-established pharmacy is offered for sale, including house, garage and shop. House newly decorated and centrally heated throughout. Stock at valuation. For further particulars apply Wallace, Davidson & Black, Solicitors, 150 High Street, C 6274 Kirkcaldy.

MORECAMBE—Retirement offers an ambitious and energetic pharmacist opportunity to acquire first-class progressive family residential dispensing business. Capital required £7,000 approx, N.P. £2,500 plus, Lease or freehold available. Box C 6271.

PHARMACEUTICAL BUSINESS

For Sale in Seaside Town, Co. Antrim, N. Ireland. Apply: Muir & Addy, C.A., 7 Donegall Square West, Belfast, 1.

C 6263

CANTERBURY GROUP HOSPITAL MANAGEMENT COMMITTEE

Deputy Chief Pharmacist

Applications are invited for the appointment of Deputy Chief Pharmacist to the Group Pharmaceutical Department (Category IV Hospitals). The Department which is situated at the Kent and Canterbury Hospital, serves the 12 hospitals and clinics in the area, Salary scale £898 to £1,223 per annum. Applications with full details and names of two referees to be sent as soon as possible to the Group Secretary, Central Office, Nunnery Fields Hospital, Canterbury.

C 9398

C 9398

CLAYTON HOSPITAL, NORTHGATE, WAKEFIELD

Post-graduate Pharmaceutical Student

There will be a vacancy in September for a Post-graduate Pharmaceutical Student who requires one year's practical training before registration.

The Department is situated in a busy general

hospital and there is ample opportunity to obtain a sound knowledge of hospital phar-

Payment will be at the rate of £509 per

Application form from Group Secretary, Wakefield "A" Group H.M.C., 113 Northgate, Wakefield.

Appointments—Continued

CAMBERWELL HOSPITALS MANAGEMENT COMMITTEE

Chief Pharmacist

Applications invited for the post of Chief Pharmacist, Category I, St. Francis Hospital, Constance Road, S.E.22, Salary £898 x 8 increments to £1,233 p.a. plus London Weighting Allowance.

Apply: Group Secretary, Dulwich Hospital, East Dttlwich Grove, S.E.22, Locum considered, C 9368

CENTRAL GROUP HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

required for holiday relief duties in Hospitals within the group, August 17 to October 3, 1964, and September 7-12, 1964. Salary £20 198. Applications to the Chief Pharmacist. Metropolitan Hospital, Kingsland Road, E.8. CLI. 6862. C 663

CHARING CROSS GROUP OF HOSPITALS, FULHAM HOSPITAL, LONDON, W.6

Senior Pharmacist

required at the above teaching hospital (Category III — 415 beds), Salary scale £851 rising by annual increments to £1,115 p.a. plus Higher Qualifications Allowance, and London Weighting, The Department has a staff of cight and is responsible for the dispensing of the main hospital and a small maternity unit nearby. Successful candidate will deputise for Chief Pharmacist in his absence. Holiday arrangements honoured,

Pharmacist (part-time)

required for one or more sessions per week. 42s, 7d, per session. This is a new post created because of the developments of the Sterile Ward and Kidney Dialysis Unit. Applications (for either post), giving details of previous experience and naming two referees, to Secretary as soon as possible.

C 9362

DREADNOUGHT SEAMEN'S HOSPITAL, GREENWICH, S.E.10

Pharmacist

required. Post vacant next September, Two in department. Alternate Saturdays, Salary £761—£1,019 plus London Weighting; also £2 12s. 8d. per week for two late sessions. Resident accommodation available if required. Applications to House Governor. C 9284

EDGWARE GENERAL HOSPITAL, EDGWARE, MIDDLESEX

Pharmacist

required 1st September, 1964. Part-time applicant(s) will be considered. Apply to Chief Pharmacist (EDG. 2381, Ext. 327).

C 9408

EDGWARE GENERAL HOSPITAL, EDGWARE, MIDDLESEX

Senior Pharmacist

required 14th September, 1964. This is a busy general hospital of 654 beds and offers good experience and varied duties. Salary scale f851—£1,113 p.a., plus London Weighting. Department can be visited by arrangement with Chief Pharmacist (EDG, 2381, Ext 327), Apply, stating age, qualifications and experience and giving the names and addresses of two referces, to Group Secretary.

ENFIELD GROUP HOSPITAL

ENFIELD GROUP HOSPITAL MANAGEMENT COMMITTEE Senior Pharmacist required for duties within the Group; also applications are invited for part-time Senior Pharmacist with duties at South Lodge Hospital, N.21, Enfield War Memorial Hospital or St. Michael's Hospital, Enfield. Whitley Council salary plus London Weighting, Applications naming two referees to the Group Secretary, C 9381

HENDON GROUP HOSPITAL MANAGEMENT COMMITTEE
Post-graduate Pharmacentical Student required at EDGWARE GENERAL HOSPITAL, Edgware, Middlesex, for twelve months from 31st August, 1964, or by arrangement, Experience available in Group Pharmacy, which has a well-equipped sterile products unit, and at small hospitals in the group. Applications, including names and addresses of two referees, to Chief Pharmacist (EDG, 2381, Ext. 327). C 9409

HILL END HOSPITAL, ST. ALBANS, HERTS (20 miles from London)

Locum Chief Pharmacist
required from 31st August to 19th September, 1964, inclusive. Salary £24 5s, per week.
Accommodation may be available for single man, if required, Applications giving details of qualifications and experience and naming two referees to the Chief Pharmacist. C 681

HOSPITAL MANAGEMENT COMMITTEE No. 9, WAKEFIELD "A" GROUP

WAKEFIELD "A" GROUP Senior Pharmacist required for busy sterilising and manufacturing department in a category IV group hospital. Modern equipment includes newly installed rapid-cooling fluids autoclave. Post offers excellent experience. Salary £851—£1,113, Whitley Council conditions, Application form from Group Secretary, 113 Northgate, Wakefield, C 9405

ILFORD AND DISTRICT HOSPITAL MANAGEMENT COMMITTEE, KING GEORGE HOSPITAL, EASTERN AVENUE, NEWBURY PARK, ILFORD, ESSEX

Dispensing Assistant
Part-time, 23 hours per week. Whitley Council pay and conditions,
Apply to Group Secretary. C 9406

LONDON JEWISH HOSPITAL,

Council conditions of service and salary. Applications and experience, together with the names of two referees to the Chief Pharmacist.

LONDON JEWISH HOSPITAL,

LONDON JEWISH HUSPITAL,
STEPNEY GREEN, E.1
Locum Pharmacist
required at the above hospital. Modern department, Every third Saturday morning off.
Previous hospital experience not essential.
Salary £19 19s, per week, Applications to the Chief Pharmacist (Telephone STE, 1222, Ext. 219)
C 9394

PADDINGTON GENERAL

HOSPITAL,
HARROW ROAD, W.9
Locunt Pharmacist
required for indefinite period, Apply immediately to the Hospital Secretary. C 666

MEDWAY AND GRAVESEND HOSPITAL MANAGEMENT COMMITTEE, ALL SAINTS' HOSPITAL, CHATHAM, KENT

CHATHAM, KENT

Deputy Chief Pharmacist (Category IV)
required at the above hospital, which also serves a sub-group of four other hospitals. Salary £898-£1,223 p.a.
The Pharmaceutical Department will be transferred in due course to the Medway Hospital, Gillingham, which is being developed as the main district hospital for the area, Further details of the appointment may be obtained from the Chief Pharmacist at All Saints' Hospital.
Applications should be addressed to the Hospital Secretary stating age, qualifications, experience and names of two referees.

MOORFIELDS EYE HOSPITAL

Senior Pharmacist

Applications are invited for the above post at this Post-graduate Teaching Hospital. Interesting post in modern, well-equipped department, Whitley Council salary scale £851—£1,113 per annum plus £45/55 London Weighting.

Applications to the Chief Pharmacist, Moorfields Eye Hospital, City Road, London, E.C.1.

NEWMARKET GENERAL
HOSPITAL
Dispensing Assistant
required in modern Group Pharmacy, Ideal
working conditions, alternate long weekends,
Applications giving age, experience and
names of two referees to the Group Pharmacist

C 9402

PADDINGTON GENERAL HOSPITAL,

HARROW ROAD, W.9

Senior Pharmacist
required at above hospital, Commencing salary according to previous experience, Applications together with the names and addresses of two referees to the Hospital Secretary C 665 Secretary.

ROYAL FREE HOSPITAL

Pharmacist

Applications are invited for the post of Pharmacist at the above Hospital. Whitley Council salary scale with extra pay for evening clinics, Apply naming two referees to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 679

STAMFORD AND RUTLAND HOSPITAL,

HUSPITAL,
STAMFORD, LINCOLNSHIRE
Chief Pharmacist (Category II)
Applications are invited for the above post.
Whitley Council rates apply. Accommodation
available for single lady.
Applications to the Secretary immediately.
C 6259

ST. PAUL'S HOSPITAL, ENDELL STREET, W.C.2
Chief Pharmacist
The Board of Governors invite applications for the appointment of Chief Pharmacist, St. Paul's Hospital. The post becomes vacant on the 30th of November next on the retirement of Mr. A. C. Joy.
Candidates should be interested in specialising in the pharmaceutical problems of urology and renal medicine, on which they will be expected to advise medical staff engaged in research. It is planned to reconstruct the department shortly. The salary scale is £898-£1,223 per annum plus London Weighting Allowance, and Whitley Council Conditions of Servicee apply. Applications giving full details of age, training and experience and the names of three referees to the House Governor, c/o the Roard Offices, St. Philip's Hospital, Sheffield Street, W.C.2, as soon as possible, C 9376

RONKSWOOD HOSPITAL, WORCESTER

WORCESTER

Pharmacist

required for interesting and varied duties.
Salary on scale £761 to £1,019 per annum according to previous professional experience.
Applications stating age, details of training, posts held, names of referees, to the Hospital Sceretary, from whom further information

C 9399

ROYAL HOSPITAL RICHMOND, SURREY

Senior Pharmacist
Applications are invited for the above post at the Royal Hospital (Acute General), Richmond, Surrey, Whitley Council salary and conditions of service, plus London Weighting, Applications, giving details of age, experience, qualifications and names of two referees to the Administrative Officer, immediately.

C 9379

SOLIHULL HOSPITAL, LODE LANE, SOLIHULL, WARWICKSHIRE

Pharmacist or Senior Pharmacist required for developing General Hospital, Department may be visited by arrangement with the Chief Pharmacist if required. Applications, stating age, qualifications, experience and names of two referees to Secretary.

ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS

Senior Pharmacist or Pharmacist
Applications are invited for the above post at this hospital within easy reach of Central London, Whitley Council salary and conditions of service, Detailed applications naming two referees to the Chief Pharmacist, C 652

ST. ALBANS CITY HOSPITAL,
NORMANDY ROAD,
ST. ALBANS, HERTS
(402 beds)
Locum Tenens Pharmacist
required immediatcy, Part-time would be
considered. Whitley Council salary and
conditions of service, Detailed applications
giving names of two referees to the Hospital
Secretary. C 659 Secretary.

ST. GEORGE'S HOSPITAL TEACHING GROUP

Dispensing Assistant
required at St. George's Hospital, S.W.1, for
duties within the group in modern departments, Whitley Council salary scale plus
London Weighting, Further particulars from
Chief Pharmacist. Apply in writing stating
age, experience and names of two referees
to Assistant Secretary, St. George's Hospital,
Hyde Park Corner, S.W.1. C 9400

ST. GILES' HOSPITAL, ST. GILES' ROAD, CAMBERWELL, S.E.5

Locum Pharmacist

part-time, or sessional required immediately

Apply: Chief Pharmacist, St. Giles' Hospital, St. Giles' Road, Camberwell, S.E.5. (RODney 4221.)

ST. MARGARET'S HOSPITAL, EPPING, ESSEX

Chief Pharmacist (Category III)
required, Applications are invited for the above post which becomes vacant on October I, Whitley Council salary scale and conditions of service, Applications stating age, qualifications, experience and the names of two referces to be sent to the Hospital Secretary at the above address. C 6261

SITUATIONS VACANT WHOLESALE

REQUIRED 3 REPRESENTATIVES

Due to continued expansion The English Grains Co. Limited, require three Representatives with Wholesale/Retail Chemist connections. The Territories to be covered are:-

1. London and the South

2. The Midlands

3. The North of England

There is tremendous scope for advancement. Please send full details of career to date and present earnings to: W. Davison, Director, Kenneth Weston Marketing Ltd., Granary House, Burton-on-Trent,



FOUNDATION THE WELLCOME

WOMAN PHARMACIST

to work in the Pharmaceutical Development Laboratories, which are situated at the Wellcome Chemical Works, Dartford. The post will appeal to a woman pharmacist who has had experience in a hospital or retail pharmacy and has an interest in small-scale dispensing. The work of the Development Laboratories includes the formulation of new products, the development of laboratory methods of preparation into manufacturing processes, and the investigation of problems which arise in the manufacturing unit. Salary will be agreed on the basis of qualifications and experience. Please write, quoting AK.68 to the:—

> Personnel Manager, Wellcome Chemical Works, Dartford, Kent

C 9389

ST. GILES' HOSPITAL, CAMBERWELL, S.E.5

Senior Pharmacist
Applications invited for post of Scnior Pharmacist, Salary scale £896—£1,168 p.a. Part-time considered.
Further details from or applications to Chief Pharmacist, C 9369

ST. JOHN'S & HITHER GREEN HOSPITAL

Locuni Pharmacist required, £19 19s, Apply Hospital Secretary, St. John's Hospital, Morden Hill, S.E.13,

ST. JOHN'S & HITHER GREEN HOSPITAL

Pharmacist required at once, Applications to Hospital Secretary, St. John's Hospital, Morden Hill, C 656

SITUATIONS VACANT

REQUIRED FOR OCTOBER 1, 1964, Male/ female dispenser for Medical practice in North Norfolk (3 partners), Married couple, Wife willing to do some secretarial work an advantage but not essential, Flat available, Applicant must be medically fit, Box C 6280.

RETAIL (HOME)

PHARMACY BRANCH MANAGER required for pharmacy in small town, excellent Superannuation Scheme and employment conditions, Application by September 1, 1964, in writing, giving full information of education, training and experience should be addressed to, Picasley & Pieasley Hill Co-operative Chemists, Ltd., Pleasley, Mansfield, Notts.

C 6268 PHARMACY BRANCH MANAGER required

C 6268 SURREY. Manager or manageress required for 1 year old pharmacy in pleasant town, Light dispensing, little bookwork but stimulating counter trade, Furnished/unfurnished flat, Normal hours. Rota 1 week in 6, 3 weeks' holiday, Profit participation, Ideal for newly qualified, Box C 6256.

Situations Vacant—Continued

DISPENSING AND/OR COUNTER ASSIS-TANTS required for London, E.C.1 and N.1. Highest salary paid in exchange for experience and loyalty. Apply in writing to: The Managing Director, Kendale Chemists, 51 Exmouth Market, London, E.C.1. C 6254

EARLESTOWN, LANCS, Manager required for medium-sized pharmaey, Salary £1,250 p.a. plus free living accommodation above shop. Apply giving full details of experience cte, Box C 6275.

NORTHERN IRELAND

Vacancy occurs for Pharmaccutical
Chemist as manager of extensive
business in good provincial town.
Liberal remuneration paid to man
with initiative and ability. Apply to:

J. Duncan, M.P.S.,

36 Main Street,

Polymeraty.

Ballymoney, Co. Antrim.

C 6266

WEST BIRMINGHAM area, 5 miles City Centre, Experienced and capable dispensing assistant required for private pharmacy in industrial area, Busy dispensing, Good wages and conditions, Holiday arrangements honoured, Part-time considered, Box C 6238,

WHOLESALE

MEDICAL REPRESENTATIVE

required for

SOUTH WALES

Only men already resident in the territory and having pharmaceutical or medical background should apply. Training and est

established connection given.

> SALARY **EXPENSES** CAR PROVIDED PENSION, etc.

H'rite in confidence to:

Sales Manager,

ALLIED LABORATORIES, LTD., 140 Park Lane, London, W.1.

C 9401

PERFUMER

Picot Limited, Manufacturers of Luxury Perfumes only, require perfumer to take full control of Laboratory with small specialist staff.

Applicant must be experienced with a thorough practical knowledge of fine perfumery raw materials, and be prepared to live near West London. Interesting salary, with excellent prospects. Non-contributory pension seasons.

Applications to: Mr. W. P. Hibbert, Picot Laboratories, Picot, Limited, 191 Hammersmith Road, London, W.6. Telephone: RIV, 7777.

All applications and correspondence will be treated in the strictest confidence

C 6267

POST-GRADUATE PHARMACEUTICAL STUDENT required for the laboratories of London Manufacturing Chemists, Apply: Chief Chemist, Robert Blackie, Ltd., Pomeroy Street, London, S.E.14, NEW Cross 1122.

REPRESENTATIVE (domiciled in Newcastle) required by a well-known distributing house; ealling upon chemists and stores. Salary, commission and car supplied. Write, giving fullest particulars of experience, age, etc., to Thos. Christy & Co., Ltd., North Lane, Aldershot, Hants,

WAREHOUSE MANAGER

We require a pharmacist to fill the above position in our main ware-liouse at Southampton, with overall responsibility for order assembly and

despatch.

We are a rapidly expanding company engaged in the manufacture of counter and veterinary specialities and the wholesale distribution of pre-

and the wholesale distribution of prescription products. Previous experience would be useful but energy, ability to control staff and a flair for organisation are more important. Preferred age 25-35, but an exception could be made. Starting salary not less than £1,500 with excellent prospects for the man who can show results. Please write for further details and include a concise summary of your career to date.

J. M. LOVERIDGE LTD., 6 Millbrook Road, Southampton.

C 6250

WAREHOUSEMAN REQUIRED, Some experience in sundries, Romford area, Salary by arrangement, Prospects for right man. Box C 6260.

SITUATIONS WANTED

GENTLEMAN—Educated A.L. science, experienced hospital, retail pharmacy and scientific work, will act as your representative (part-time), to handle your business interests, etc., in London, Home Counties. Retaining fcc £2 2s. weekly. Box C 6270.

AGENTS

AGENTS REQUIRED with first-class connection for proprietary sundries. Good commission basis, Write fully, Box C 6264.

AGENTS REQUIRED throughout England and Wales on commission for nationally-famous baby products, calling on wholesale and retail chemists. Please state area eovered and details of products at present carried. Box C 9355.

AGENTS required in all U.K. territories, calling on retail chemists and health food stores, to sell the famous "Hain" Californian Carrot Juice and "Welch's" Concord Grape Juice (12-oz. tins). Commission basis 7½ per cent. Please forward details of age, area covered, products already carried, and whether or not a car owner, to Mark Lanc Milling Co., Ltd., 196 Tower Bridge Road, London, S.E.1. C 6262

WANTED

CASH FOR REDUNDANT, rejected or elearing lines. Quantities of any size or description, distance no object, quick decisions. S. & T. Supplies, Ltd., 24 Randall Street, Battersea, S.W.11. Phone: BATtersea 0781.

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, ctc. No quantity too large. Our representative will call anywhere. Write or telephone: Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.11. Tcl.: Park 3137-8.

OUTDATED FILM WANTED, Kodak, llford, etc., all sizes still and cine. Write "Franmont," 158 New Bridge Street, Newcastle-upon-Tyne, 1.

BUSINESS OPPORTUNITIES

MANLY MAN'S BELT, Nationally advertised "obtainable from chemists," 35/-, Full trade terms, Order by waist from Manly Co., Manor House, Worcester Park, Surrey. DERwent 3877. C 635

MANUFACTURING FACILITIES

available for medicinal, toilet or household products. Bulk or packed. Large or small quantities. Qualified supervision.

READE BROTHERS & CO., LTD., Sharrock Street, Wolverhampton

C 682

TENDERS

NOTTINGHAMSHIRE COUNTY COUNCIL

Tenders are invited for the supply of the following goods and articles to various premises within the County for a period of twelve months commencing November 1, 1964:—

Medical and Sundry Supplies.

Surgical Appliances and Instruments.

Nursing Equipment and Appli-ances, including Commodes and Wheelchairs.

Rubber Articles.

Surgical Dressings and Plasters,

Maternity Outfits and Pads.

Cod-liver Oil Products.

Dental Consumable Stores and Instruments.

Vaccine.

Further particulars and forms of tenfurther particulars and forms of tender and conditions of contract may be obtained from the County Medical Officer, Shire Hall, Nottingham. Completed tenders in the envelopes to be supplied should be received not later than 10 a.m. on Friday, September 11, 1964.

A R DAVIS.

A. R. DAVIS,
Clerk of the County Council.
West Bridgford,
Nottingham. C 9390

MISCELLANEOUS

LABEL OVERPRINTS. Some capacity available. Send specimens for proofs and price. Box C 6249.

PLASTIC BABY PANTS

8/9 per dozen. Carriage paid.

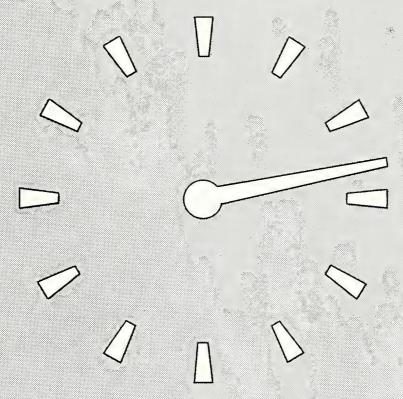
Special quotations for quantities. Details and samples from manufacturers

A. & H. HEYMAN, 27 Grange Road, Darlington.

C 6121

REQUIRED: A CONSULTING CHEMIST for pharmaceutical and cosmetic products. Write with full details to G. A. Company, 109 Teigaon Industrial Area, Dacca-8, East Pakistan. C 680

The best promise a pain reliever can make...



FASTEST POSSIBLE RELIEF!

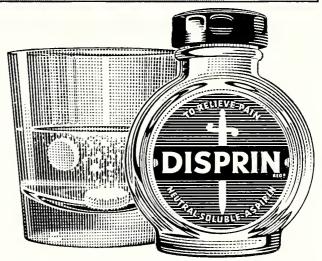
Disprin makes this promise to your customers in big, bold advertisements in the major papers, backed in winter months by frequent 15 and 30-second spots throughout the television network.

A promise—and a *fact!* Because Disprin is taken already dissolved, it is absorbed far more quickly than ordinary tablets. More than that, there are no acid particles to cause irritation.

Watch for this powerful new campaign, and be sure to keep Disprin well displayed. More and more people will be changing to fast-acting Disprin this year.

And remember, Disprin is the pain-reliever you can always recommend with complete confidence.

Reckitt & Sons Ltd., Pharmaceutical Dept., Hull.



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